CONTRACT NO: HK/2011/07

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 2)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 , FEP-06/356/2009 AND FEP-07/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT - DECEMBER 2015 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

Lam Geotechnics Limited

11/F Centre Point 181-185 Gloucester Road, Wanchai, H.K.

Telephone: (852) 2882-3939
Facsimile: (852) 2882-3331
E-mail: info@lamenviro.com
Website: http://www.lamenviro.com

CERTIFIED BY:

Raymond Dai

Environmental Team Leader

DATE:

13 January 2016



Ref.: AACWBIECEM00_0_7648L.16.docx

14 January 2016

By Post and Fax (3912 3010)

AECOM Asia Company Limited Engineer's Representative's Office 25 Hung Hing Road, Causeway Bay, Hong Kong

Attention: Mr. Peter Poon

Dear Mr. Poon,

Re: Contract No. HK/2011/07
Wan Chai Development Phase II - Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 2)

Monthly Environmental Monitoring and Audit Report (December 2015) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for December 2015 received by e-mail on 13 January 2016 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung

Independent Environmental Checker

Encl.

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c.c.

HyDAttn: Mr. Bond Chowby fax: 2714 5289CEDDAttn: Mr. Stephen Loby fax: 2577 5040AECOMAttn: Mr. Frankie Fanby fax: 2691 2649AECOMAttn: Mr. Conrad Ngby fax: 2691 2649LamAttn: Mr. Raymond Daiby fax: 2882 3331



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EXECUTIVE SUMMARY

This is the Environmental Monitoring and Audit (EM&A) Monthly Report – December 2015 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring findings and information recorded during the period from 27th November 2015 to 26th December 2015.

Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
 - Nil
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Reclamation works was completed
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Reinstatement of vertical seawall at TPCWAE
- v. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 - Nil
- vi. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Construction of culvert
 - Construction of dry dock
 - Trimming of rock bedding
- vii. During this reporting period, the major work activities for Contract no. HY/2010/08.
 - Diversion pipe maintenance

Noise Monitoring

- viii. Four limit level exceedances were recorded at noise monitoring station M1a Habour Road Sports Center on 01, 08, 15 and 23 December 2015. The exceedances were concluded as non-project related.
- ix. Two limit level exceedances were recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015. The exceedances were concluded as non-project related.
- x. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting month.



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Real-time Noise Monitoring

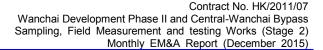
- xi. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- xii. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xiii. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related limit level exceedance was recorded in the reporting month.

Air Quality Monitoring

- xiv. Due to interruption of electricity, the 24hr TSP was rescheduled as follows: 24hr TSP at CMA5b was rescheduled from 2 December 2015 to 3 December 2015.
- xv. No action or limit level exceedance for TSP monitoring was recorded in the reporting month.
- xvi. With respect to the removal of Oil Street Site Office, the respective air quality monitoring station CMA1b was finely adjusted on 11 September 2015.
- xvii. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively
- xviii. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xix. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xx. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b Oil Street Site Office; CMA2a Causeway Bay Community Center; CMA3a CWB PRE Site Office Area; CMA4a Society for the Prevention of Cruelty to Animals; CMA5b Pedestrian Plaza; CMA6a WDII PRE Site Office.

Water Quality Monitoring

- xxi. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2015.
- xxii. With respect to the completion of dredging activities at HKCEC and WCR, the removal of silt screen at monitoring stations C1, P1, P3, P4, P5 was conducted on 7 November 2015, for the water quality monitoring at C1, P1, P3, P4, P5 have been monitored for 4-week period after the removal of silt screen to confirm no water deterioration.
- xxiii. With respect to the completion of dredging activities at HKCEC and WCR, the removal of silt screen at monitoring stations WSD19 was conducted on 15 September 2015, for the water



quality monitoring at WSD19 have been monitored for 4-week period after the removal of silt screen to confirm no water deterioration.

- xxiv. With respect to the completion of the removal of the silt screen maintained under WDII Contract HK/2009/01 at WSD Saltwater Intake Station WSD19 on 15 September 2015, the monitoring location for the WQM station WSD19 would be finely adjusted to the location immediately outside the abstraction point of the respective WSD Saltwater Intake from 16 September 2015.
- xxv. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015.
- xxvi. With respect to the construction stage and access condition at Ex-PCWAW and the potential DO concern within the area, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SE was resumed on 10 August 2015 at the finely adjusted monitoring location.
- xxvii. With respect to the construction works undertaken at Ex-PCWAW and the forthcoming wet season DO concern, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SW was resumed on 30 March 2015 at the finely adjusted monitoring location.
- xxviii. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.
- xxix. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014.
- xxx. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- xxxi. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- xxxii. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake. The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- xxxiii. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- xxxiv. As confirmed by WDII RSS and IEC, the cross harbor dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water

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- quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- xxxv. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- xxxvi. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- xxxvii. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- xxxviii. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- xxxix. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
 - xl. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
 - xli. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
 - xlii. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
 - xliii. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
 - xliv. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
 - xlv. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
 - xlvi. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no



longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.

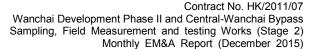
- xlvii. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- xlviii. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- xlix. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
 - Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring Station	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	1	0	0
	WSD19	0	0	5	1	0	0	0	0	0	3	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	1	0	1
HK/2009/02	RW21-P789	0	0	0	1	0	0	0	0	1	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	5	2	0	0	0	0	1	5	0	1

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.





- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- li. There were 6 action level and 7 limit level of turbidity exceedances, and no action level and 1 limit level of suspended solid exceedances recorded in the reporting month.
- lii. Investigation found that the turbidity exceedances and suspended solid exceedances recorded in this reporting month were not related to Project works. The details of the recorded exceedance can be referred to the **Section 6.4**.
- liii. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

Table II Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station	DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
H1/2009/15	Ex-WPCWA SW	1	0	0	0
	1	0	0	0	

Remarks: - Enhance DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation.

- Enhance DO monitoring at Monitoring station at Ex-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area.
- liv. There was 1 action level and no limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedance was not related to Project works. The details of the recorded exceedances can be referred to the **Section 6.4**.
- Iv. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.



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- Ivi. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.
- lvii. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- lviii. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- lix. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015.

Complaints, Notifications of Summons and Successful Prosecutions

- lx. There was no environmental complaint received in this reporting month.
- Ixi. Referring to the complaint case regarding the illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015, the updated 2nd and 3rd interim investigation report were submitted to the EPD on 17 December 2015 and 31 December 2015 respectively. In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.

Site Inspections and Audit

- i. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.
- Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-05/356/2009 was handover and inspected under HK/2012/08 from 22 September 2014 onwards.

Future Key Issues

iii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

Nil

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East

Nil

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)</u>

Reinstatement of vertical seawall at TPCWAE

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

Nil

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

- Construction of culvert
- · Construction of dry dock
- Trimming of rock bedding

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

• Diversion pipe maintenance



1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "Environmental Monitoring and Audit Requirements" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period from 27th November 2015 to 26th December 2015. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2** *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3 Status of Regulatory Compliance** summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5 Monitoring Results** summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.



Section 8 Environmental Site Audit – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 Complaints, Notification of summons and Prosecution – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 Conclusion



2 Project Background

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.

2.2.3. The scope of the Project comprises:

- Land formation for key transport infrastructure and facilities, including the Trunk Road
 (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for
 through traffic from Central to Wan Chai and Causeway Bay. The land formed for the
 above transport infrastructure will provide opportunities for the development of an
 attractive waterfront promenade for the enjoyment of the public
- Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above



- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (Eps) to be granted by the DEP before they may be either constructed or operated. Table 2.1 summarises the five individual DPs under this Project. Figure 2.1 shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

2.3 **Division of the Project Responsibility**

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.2. The details of individual contracts are summarized in *Table 2.2*.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date	
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong	DP3, DP6	23 July 2010	
	Kong Convention and Exhibition Centre	DP1, DP2	25 August 2011	
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010	
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011	
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Completed)	
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010	
	(Causeway Bay Typhoon Shelter Section)		13 July 2011	
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)	
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)	
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)	
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011	
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011	
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014	
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013	
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014	

2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.3*:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader	Contractor under Contract no.	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Joint Venture	HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Terry Tsang	6683 9394	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057	
Chun Wo –	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Paul Yu	3658-3085	2827 9996
CRGL Joint Venture		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China	Contractor under Contract no. HY/2009/15	Project Director	Chris Leung	3557 6393	2566 2192
State Constructi		Site Manager	Y Huo	3557 6368	
on Engineerin g (HK) Ltd.		Contractor's Representative	Andrew Wong	3557 6371	
g (i ii t) Ltd.		Contractor's Representative	Gene Cheung	3557 6395	
		Environmental Officer	Andy Mak	3557 6347	
Chun Wo – CRGL –	Contractor under Contract no.	Project Manager	Rayland Lee	3758 6788	2570 8013
MBEC_	HY/2009/19	Site Agent	David Lau	3758 8879	
Joint Venture		Deputy Site Agent	Eric Fong	6191 9337	
		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810	
		Construction Manager (Marine)	Andy Chan	9879 4325	
		Construction Manager (Land)	Bear Ding	6483 6198	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522



Party	Role	Post	Name	Contact No.	Contact Fax
State-	under Contract	Project Manager	Eddie Chung	9189 8118	
Leader JV	no. HK/2012/08	Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor under Contract no. HY/2010/08	Project Director	Chris Leung	3467 4299	2566 8061
		Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Leighton	Contractor under	Project Manager	Paul Evans	2823 1111	21406799
Joint Venture	Contract no. HY/2011/08	Site Agent	Colman Wong	9730 0806	
		Environmental Officer	David Hung	9765 6161	
		Environmental Supervisor	Penny Yiu	2214 7738	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.4.3. For Contract no. HK/2009/01, the principal work activities in this reporting month included:
 - Nil
- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Reclamation works was completed
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Reinstatement of vertical seawall at TPCWAE



- 2.4.6. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - Nil
- 2.4.7. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - Construction of culvert
 - Construction of dry dock
 - Trimming of rock bedding
- 2.4.8. For Contract no. HY/2010/08, no principal work activities this reporting month.
 - Diversion pipe maintenance
- 2.4.9. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC</u>

Nil

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East</u>

Nil

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon</u> Shelter Section)

· Reinstatement of vertical seawall at TPCWAE

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

Nil

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West</u>

- Construction of culvert
- Construction of dry dock
- Trimming of rock bedding

Contract No. HK/2011/07

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

Diversion pipe maintenance

3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	Valid

- 3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:
 - <u>Contract no. HK/2010/06 Wan Chai Development Phase II Central Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-05/356/2009
- 3.1.3. The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.

<u>Contract no. HK/2009/01 – Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC</u>

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in *Table 3.2* and *Table 3.3*.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for	GW-RS0706-15	30 Jun 2015	2 Jul 2015 to 1 Jan 2016	Valid
non-piling equipment	GW-RS0803-15	28 Jul 2015	21 Aug 2015 to 20 Feb 2016	Valid
	GW-RS0804-15	28 Jul 2015	22 Aug 2015 to 21 Feb 2016	Valid
	GW-RS0868-15	13 Aug 2015	14 Aug 2015 to 13 Feb 2016	Valid
	GW-RS1025-15	22 Sep 2015	24 Sep 2015 to 23 Mar 2016	Valid
	GW-RS1031-15	22 Sep 2015	29 Sep 2015 to 24 Mar 2016	Superseded by GW-PS1228-15
	GW-RS1134-15	23 Oct 2015	08 Nov 2015 to 07 May 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1135-15	23 Oct 2015	26 Nov 2015 to 25 May 2016	Valid
	GW-RS1228-15	13 Nov 2015	16 Nov 2015 to 13 May 2016	Valid
	GW-RS1309-15	27 Nov 2015	30 Nov 2015 to 26 May 2016	Valid
Discharge Licence	WT00021138-2015	13 Apr 2015	31 Mar 2020	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-094	08 Oct 2015	13 Oct 2015 to 12 Apr 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	-	-	-	-

Table 3.3 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan (Rev. 9)	5 Nov 2015



EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Rev. 8)	7 Sep 2015
	Silt Screen Deployment Plan (Rev. 7)	21 Nov 2014
	Silt Screen Deployment Plan (Rev. 6)	20 Aug 2014
	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
Conditions 0.0	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011
Condition 2.9	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East</u>

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0610-15	10 Jun 2015	22 Jun 2015 to 21 Dec 2015	Expired
	GW-RS0637-15	11 Jun 2015	18 Jun 2015 to 8 Dec 2015	Expired
	GW-RS0709-15	30 June 2015	2 Jul 2015 to 1 Jan2016	Valid
Construction Noise Permit (CNP) for non-piling	GW-RS0716-15	30 June 2015	4 Jul 2015 to 27 Dec 2015	Expired
equipment	GW-RS1004-15	15 Sep 2015	17 Sep 2015 to 16 Dec 2015	Expired
	GW-RS1006-15	15 Sep 2015	18 Sep 2015 to 14 Mar2016	Valid
	GW-RS1099-15	8 Oct 2015	8 Oct 2015 to 30 Nov 2015	Expired
	GW-RS1150-15	26/10/2015	28 Oct 2015 to 27 Apr 2016	Valid
	GW-RS1187-15	28/10/2015	30 Oct 2015 to 27 Apr 2016	Valid
	WT00008982-2011	26 Apr 2011	30 April 2016	Valid
Discharge Licence	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-034	26 Jun 2015	1 Jul 2015 to 31 Dec 2015	Valid

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.8	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
	Silt Screen Deployment Plan	21 April 2010
Condition 0.0	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
Condition 2.9	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010
CONTUNION 2.10	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

<u>Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)</u>

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under FEP-04/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0893-15	17 Aug 2015	17 Aug 2015 to 16 Feb 2016	Valid
Construction Noise Permit (CNP) for reclamation and d-wall works at Ex-PCWA	GW-RS1160-15	26 Oct 2015	28 Oct 2015 to 25 Apr 2016	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	5 Oct 2015	17 Oct 2015 to 16 Jan 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-051	3 Aug 2015	5 Aug 2015 to 30 Jan 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal(Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/16-128	18 Nov 2015	22 Nov 2015 to 21 Dec 2015	Expired

Table 3.7 Summary of submission status under FEP-04/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010

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FEP Condition	Submission	Date of Submission
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
	Noise Management Plan	20 Oct 2010
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.7. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 3.1*.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.8*

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0909-15	21 Aug 2015	21 Aug 2015 to 20 Feb 2016	Valid
Discharge License (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West</u>

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-06/356/2009 are shown in *Table 3.9* and *Table 3.10*.

Table 3.9 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Reference No.	Issued Date	Valid Period/ Expiry Date	Status
FEP-06/356/2009	5 Mar 2013	N/A	Valid
355439	4 Feb 2013	N/A	Valid
5213-134-C3790-01	8 Mar 2013	N/A	Valid
7016883	18 Feb 2013	18 Jul 2017	Valid
WT00018223-2014	28 Jan 2014	31 Jan 2019	Superseded by WT0002059 4-2014
WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
GW-RS0838-15	31 Jul 2015	3 Aug 2015 to 2 Feb 2016	Valid
GW-RS0835-15	3 Aug 2015	5 Aug 2015 to 2 Feb 2016	Valid
GW-RS1012-15	22 Sep 2015	27 Sep 2015 to 26 Mar 2016	Valid
GW-RS0976-15	7 Sep 2015	23 Sep 2015 to 22 Mar 2016	Valid
PP-RS0024-15	17 Sep 2015	22 Sep 2015 to 21 Mar 2016	Valid
GW-RS0921-15	26 Aug 2015	9 Sep 2015 to 8 Mar 2016	Valid
EP/MD/16-037	30 Jun 2015	2 Jul 2015 to 1 Jan 2016	Valid
EP/MD/16-111	27 Oct 2015	2 Nov 2015 to 1 Dec 2015	Expired
EP/MD/16-135	27 Nov 2015	2 Dec 2015 to 1 Jan 2016	Valid
	FEP-06/356/2009 355439 5213-134-C3790-01 7016883 WT00018223-2014 WT00020594-2014 GW-RS0838-15 GW-RS0835-15 GW-RS1012-15 GW-RS0976-15 PP-RS0024-15 GW-RS0921-15 EP/MD/16-037 EP/MD/16-111	FEP-06/356/2009 5 Mar 2013 355439 4 Feb 2013 5213-134-C3790-01 8 Mar 2013 7016883 18 Feb 2013 WT00018223-2014 28 Jan 2014 WT00020594-2014 22 Dec 2014 GW-RS0838-15 31 Jul 2015 GW-RS0835-15 3 Aug 2015 GW-RS1012-15 22 Sep 2015 GW-RS0976-15 7 Sep 2015 PP-RS0024-15 17 Sep 2015 GW-RS0921-15 26 Aug 2015 EP/MD/16-037 30 Jun 2015 EP/MD/16-111 27 Oct 2015	FEP-06/356/2009 5 Mar 2013 N/A 355439 4 Feb 2013 N/A 5213-134-C3790-01 8 Mar 2013 N/A 7016883 18 Feb 2013 18 Jul 2017 WT00018223-2014 28 Jan 2014 31 Jan 2019 WT00020594-2014 22 Dec 2014 31 Jan 2019 GW-RS0838-15 31 Jul 2015 3 Aug 2015 to 2 Feb 2016 GW-RS0835-15 3 Aug 2015 5 Aug 2015 to 2 Feb 2016 GW-RS1012-15 22 Sep 2015 27 Sep 2015 to 2 Feb 2016 GW-RS0976-15 7 Sep 2015 27 Sep 2015 to 2 Feb 2016 PP-RS0024-15 17 Sep 2015 23 Sep 2015 to 2 Feb 2015 to 2 Feb 2016 GW-RS0921-15 26 Aug 2015 22 Sep 2015 to 3 Feb 2015 to 2 Feb 2016 EP/MD/16-037 30 Jun 2015 2 Jul 2015 to 1 Jan 2016 EP/MD/16-111 27 Oct 2015 2 Nov 2015 to 1 Dec 2015

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Table 3.10 Summary of submission status under EP-356/2009 and FEP-06/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under FEP-07/356/2009 are shown in Table 3.11 and Table 3.12.

Table 3.11 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7020947	22 Dec 2014	NIL	Valid.
Water Discharge Licence	WT00020753-2015	3 Feb 2015	28 Feb 2017	Valid
Construction Noise Permit	GW-RS1039-15	23 Sep 2015	23 Sep 2015 to 21 Mar 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1137-15	22 Oct 2015	22 Oct 2015 to 20 Apr 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-057	10 Aug 2015	12 Aug 2015 to 11 Feb 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	NIL	NIL	NIL

Table 3.12 Summary of submission status under EP-356/2009 and FEP-07/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (rev03)	24 Dec 2014
Condition 2.9	Silt Screen Deployment Plan (rev02)	18 Feb 2015
Condition 2.23	Noise Management Plan (rev02)	25 Mar 2014
Condition 2.24	Landscape Plant (rev04)	23 Sep 2014



Monitoring Requirements

4.1 **Noise Monitoring**

NOISE MONITORING STATIONS

Lam Geotechnics Limited

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Station

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

REAL-TIME NOISE MONITORING STATIONS

- 4.1.2. The real-time noise monitoring stations for the Project are listed and shown in *Table 4.2* and Figure 4.1. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.
- 4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

District	Station	Description
North Point	RTN2a	Electric Centre

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leg). Leg (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO)



- criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.8. As referred to in the Technical Memorandum ™ issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Air Monitoring Station

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

Remarks*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.

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Remarks**: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013.

Remarks***: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.



LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in <u>Figure 4.1</u> to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:





- 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 Slight Identifiable odour, and slight chance to have odour nuisance;
- 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 Strong Identifiable, likely to have odour nuisance;
- 4 Extreme Severe odour, and unacceptable odour level.
- 4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in <u>Appendix 4.1.</u>
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

4.3 Water Quality Monitoring

- 4.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 4.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

4.3.3. It is proposed to monitor the water quality at 1 WSD salt water intakes and 7 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 4.4* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

	-	-	-
Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C7	Windsor House	837193.7	816150.0
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0

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Station Ref.	Location	Easting	Northing
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2
Cooling Water Intake / WSD Salt Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0

WATER QUALITY PARAMETERS

- 4.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.
- 4.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 4.5* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency ¹	Parameters ²
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Notes:

- For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

4.3.10. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

4.3.11. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

SAMPLE CONTAINER AND STORAGE

4.3.12. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

WATER DEPTH DETECTOR

4.3.13. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

SALINITY

4.3.14. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING POSITION EQUIPMENT

4.3.15. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during



monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

CALIBRATION OF IN-SITU INSTRUMENTS

- 4.3.16. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.17. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.18. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.19. Current calibration certificates of equipments are presented in Appendix 4.2.

LABORATORY MEASUREMENT / ANALYSIS

4.3.20. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 4.6* and *Figure* 4.1.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

4.3.23. The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed,

except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 4.3.25. The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data sahll be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 4.3.26. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.3.27. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 4.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
 - Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central -Wanchai Bypass at HKCEC, Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at WanChai East

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.2. Four limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 01, 08, 15 and 23 December 2015 in this reporting month.
- 5.1.3. Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 01, 08, 15 and 23 December 2015. As such, the exceedance was considered as non-Project related.



5.1.4. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)</u>

5.1.5. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2 Noise Monitoring Station for Contract no. HY/2009/15

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

- 5.1.6. No action or limit level exceedance was recorded in this reporting month.
- 5.1.7. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.1.8. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Station for Contract no. HY/2009/19

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

- 5.1.9. Two limit level exceedances were recorded at monitoring station M6 HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015 in this reporting month.
- 5.1.10. Major traffic noise observed during monitoring was considered as the major noise contribution.

 As such, the limit level exceedances were concluded as non-project related.
- 5.1.11. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>



Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

5.1.12. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

Table 5.4 Noise Monitoring Station for Contract no. HY/2010/08

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

- 5.1.13. No action or limit level exceedance was recorded in this reporting month.
- 5.1.14. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

5.2 Real-time Noise Monitoring

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 5.2.1 As the marine-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 5.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 5.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/19

District	Station	Description
North Point	RTN2a	Electric Centre

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012



- 5.2.5 Limit level exceedance was recorded at RTN2a-Electric Centre on 15 December 2015 during daytime in the reporting month. On 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works by saw cutter for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station and was considered as major noise contribution. As such, the exceedance was considered as non-Project related.
- 5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.5.**

5.3 Air Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II - Central -Wanchai Bypass at HKCEC</u>

5.3.1. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed divisions of air monitoring stations are summarized in *Table 5.6* below.

Table 5.6 Air Monitoring Stations for Contract no. HK/2009/01

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

5.3.2. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East</u>

5.3.3. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in *Table 5.7* below. No exceedance was recorded in the reporting month.

Table 5.7 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.3.4. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section)</u>

5.3.5. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in *Table 5.8* below.

Table 5.8 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

5.3.6. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

Contract no. HY/2009/19- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.3.7. The proposed division of air monitoring stations are summarized in *Table 5.9* below.

Table 5.9 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

- 5.3.8. No exceedance was recorded in the reporting month.
- 5.3.9. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.

<u>Contract no. HK/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West</u>

5.3.10. The proposed division of air monitoring stations are summarized in *Table 5.10* below.

Table 5.10 Air Monitoring Stations for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza

5.3.11. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.

Contract no. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)

5.3.12. The proposed division of air monitoring stations are summarized in *Table 5.11* below. No exceedance was recorded in the reporting month.

Table 5.11 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

5.3.13. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

5.4 Water Monitoring Results.

- 5.4.1. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2015.
- 5.4.2. With respect to the completion of dredging activities at HKCEC and WCR, the removal of silt screen at monitoring stations C1, P1, P3, P4, P5 was conducted on 7 November 2015, for the water quality monitoring at C1, P1, P3, P4, P5 have been monitored for 4-week period after the removal of silt screen to confirm no water deterioration.
- 5.4.3. With respect to the completion of dredging activities at HKCEC and WCR, the removal of silt screen at monitoring stations WSD19 was conducted on 15 September 2015, for the water quality monitoring at WSD19 have been monitored for 4-week period after the removal of silt screen to confirm no water deterioration.
- 5.4.4. With respect to the completion of the removal of the silt screen maintained under WDII Contract HK/2009/01 at WSD Saltwater Intake Station WSD19 on 15 September 2015, the monitoring location for the WQM station WSD19 would be finely adjusted to the location immediately outside the abstraction point of the respective WSD Saltwater Intake from 16 September 2015.
- 5.4.5. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015.
- 5.4.6. With respect to the construction stage and access condition at Ex-PCWAW and the potential DO concern within the area, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SE was resumed on 10 August 2015 at the finely adjusted monitoring location.
- 5.4.7. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.



- 5.4.8. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014
- 5.4.9. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- 5.4.10. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- 5.4.11. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.12. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.13. As confirmed by WDII RSS and IEC, the cross harbour dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- 5.4.14. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- 5.4.15. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- 5.4.16. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- 5.4.17. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- 5.4.18. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at



- relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
- 5.4.19. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 5.4.20. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- 5.4.21. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- 5.4.22. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- 5.4.23. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 5.4.24. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.25. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
- 5.4.26. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 5.4.27. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.

- 5.4.28. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external facade refurbishment work.
- 5.4.29. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

Table 5.12 Water Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1 ¹	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ¹ , C1 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 ⁴ , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring)	Mar 2014

Remarks:

- -The water monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.
- -4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring.
- -Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)
- -Enhanced DO Monitoring at C6 since the intake abandon in May 2011.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central -Wanchai Bypass at HKCEC

5.4.30. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.13* below.

Table 5.13 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Easting	Northing				
Cooling Water Intake						
C1	HKCEC Extension	835885.6	816223.0			

Remarks:



- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013.

<u>Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East</u>

5.4.31. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing			
Cooling Water Intake						
C1	HKCEC Extension	835885.6	816223.0			
Cooling Water Inta	ke / WSD Salt Water Intake					
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake	836268.0	816020.0			

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8
 Feb 2012.
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

Contract no. HK/2012/08 - Wan Chai Development Phase II - Central- Wan Chai Bypass at Wan Chai West

5.4.32. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in *Table 5.15* below.

Table 5.15 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing				
WSD Salt Water Intake							
WSD19	Sheung Wan	833415.0	816771.0				



Station Ref. Location **Easting Northing Cooling Water Intake** P1 835774.7 816179.4 **HKCEC Phase I** P3 816212.0 The Academy of performing 835824.6 Shui on Centre P4 835865.6 816220.0 Government Buildings P5 835895.2 816215.2 (Wanchai Tower / Revenue Tower / Immigration Tower)

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)</u>

- 5.4.33. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 5.4.34. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in Table 5.16 below.
- 5.4.35. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

Table 5.16 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing		
Cooling Water Intake					
C7	Windsor House	837193.7	816150.0		

Remarks:

 The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 5.4.36. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012.
- 5.4.37. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 5.4.38. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine



- adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.39. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.40. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake C6 was terminated effective from 26 May 2011.
- 5.4.41. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 5.4.42. Water monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in Appendix 5.4.

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	1	0	0
	WSD19	0	0	5	1	0	0	0	0	0	3	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	1	0	1
HK/2009/02	RW21-P789	0	0	0	1	0	0	0	0	1	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	5	2	0	0	0	0	1	5	0	1

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012

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- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8
 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 5.4.43. There was 6 action and 7 limit level of turbidity exceedances, and no action and 1 limit level exceedances of suspended solids recorded in the reporting month. Investigation found that the exceedances recorded in this reporting month were not related to Project works. The details of recorded exceedance can be referred to the Section 6.4.
- 5.4.44. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table* 5.18.

Table 5.18 Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
110.		AL	LL	AL	LL	
HY/2009/15	C6	0	0	0	0	
H1/2009/15	Ex-WPCWA SW	1	0	0	0	
Total		1	0	0	0	

Remarks: - Enhance DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation.

- Enhance DO monitoring at Monitoring station at Ex-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area.
- 5.4.45. There was 1 action level and no limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances were not related to Project works. The details of recorded exceedances can be referred to the Section 6.4.
- 5.4.46. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from





Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in *Appendix 5.4*.

- 5.4.47. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 5.4.48. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- 5.4.49. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015.

5.5 Waste Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central -Wanchai Bypass at HKCEC

5.5.1. No inert C&D waste and non- inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.19*.

Table 5.19 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m ³	NIL	5856.5	N/A
Non-inert C&D materials disposed, m³	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

5.5.2. There were no marine sediment Type 1- Open Sea Disposal and no marine sediments Type 1 - Open Sea Disposal (Dedicate Sites) & Type 2 - Confined Marine Disposal disposed in this reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East</u>

5.5.3. No inert C&D waste and Non-inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20*.

Table 5.20 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	276075.1	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL	146445 (Bulk volume)	East of Sha Chau

- 5.5.4. There were no marine sediment Type 1 Open Sea Disposal and no Type 1 Open Sea Disposal (Dedicate Sties) & Type 2 Confined Marine Disposal disposed in this reporting month.
 - <u>Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)</u>
- 5.5.5. No Inert C&D waste and no non- inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.21*

Table 5.21 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
disposed, iii	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m ³	NIL	304	Ex-PCWA	NIL
recycled, III	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	156909 (Bulk Volume)	Cheung Chau South	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	322796 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m ³	NIL (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m³	NIL	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal), m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

5.5.6. There were no Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed, and no Type 1 Open Sea Disposal disposed in this reporting month.

Contract no. HY/2009/19 –Central- WanChai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.5.7. No inert C&D waste and non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.22*.

Table 5.22 Details of Waste Disposal for Contract no. HY/2009/19

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	NIL	355921.04	TM38
Inert C&D materials recycled, m³	NIL	59367	N/A
Non-inert C&D materials disposed, m³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m³	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m ³	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	

- 5.5.8. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 Confined Marine Disposal generated were disposed in this reporting month.
 - Contract no. HK/2012/08 –Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
- 5.5.9. There was no Inert C&D waste and no non-inert C&D waste disposed in this reporting month.

 Details of the waste flow table are summarized in *Table 5.23*.

Table 5.23 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	NIL	4131	TM38
Inert C&D materials recycled, m³	NIL	NIL	N/A
Non-inert C&D materials disposed, m³	NIL	315	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

5.5.10. There were no Marine Sediment Type 1 – Open Sea Disposal and no marine sediment Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

5.5.11. No Inert C&D waste and no non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.24*

Table 5.24 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	NIL	267660.2	N/A
Inert C&D materials recycled, m³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (December 2015)

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	55290	South Cheung Chau / Brothers Island *
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	27760	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Remarks: Under the condition of EP/MD/15-169, dredged sediment required to dispose at South of the Brothers since 9 Feb 2015.

5.5.12. There was no Type 1 – Open Sea Disposal, Type 3 – Special Treatment and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.



6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.

6.1 Noise Monitoring

- <u>Contract no. HK/2009/01 Wan Chai Development Phase II Central –Wanchai Bypass at HKCEC</u>
- 6.1.1 Four limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 01, 08, 15 and 23 December 2015 in this reporting month.
- 6.1.2 Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 01, 08, 15 and 23 December 2015. As such, the exceedance was considered as non-Project related.
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central Wan Chai Bypass at WanChai East
- 6.1.3 Four limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 01, 08, 15 and 23 December 2015 in this reporting month.
- 6.1.4 Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 01, 08, 15 and 23 December 2015. As such, the exceedance was considered as non-Project related.
 - <u>Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon</u> Shelter Section)
- 6.1.5 No exceedance was recorded in the reporting month.
 - Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- 5.1.15. Two limit level exceedances were recorded at monitoring station M6 HK Baptist Church Henrietta Secondary School on 11 and 16 December 2015 in this reporting month.
- 5.1.16. Major traffic noise observed during monitoring was considered as the major noise contribution.

 As such, the limit level exceedances were concluded as non-project related.
 - Contract no. HY/2010/08 Central-Wanchai Bypass Tunnel (Slip Raod 8 Section)
- 6.1.6 No exceedance was recorded in the reporting month.

6.2 Real-time noise Monitoring

- Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- 6.2.1. Limit level exceedance was recorded at RTN2a-Electric Centre on 15 December 2015 during daytime in the reporting month. On 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works by saw cutter for Hong Kong Electric Centre



was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station and was considered as major noise contribution. As such, the exceedance was considered as non-Project related.

6.3 Air Monitoring

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC</u>

6.3.1 No exceedance was recorded in the reporting month.

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel)</u>

6.3.2 No exceedance was recorded in the reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)</u>

6.3.3 No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.2.1. No exceedance was recorded in the reporting month.

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West

6.2.2. No exceedance was recorded in the reporting month.

Contract no. HY/2010/08 - Central-Wanchai Bypass - Tunnel (Slip Raod 8 Section)

6.2.3. No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC</u>

- 6.4.1 There was turbidity exceedance recorded at C1 on 26 December 2015 in the reporting month.
- 6.4.2 After checking with the contractor, no marine activity was conducted on 26 December 2015. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East</u>

6.4.3 There were turbidity exceedances recorded at RW21-P789 on 30 November 2015 and 18 December 2015 in the reporting month.



- 6.4.4 After checking with the contractor, no marine construction activity was conducted on 30 November 2015 and 18 December 2015. The installed silt screen was generally in order. In view of no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedances were not project related.
- 6.4.5 There was turbidity exceedances recorded at C1 on 26 December 2015 in the reporting month.
- 6.4.6 After checking with the contractor, no marine activity was conducted on 26 December 2015 while the location of the construction area was located at downstream of C1 monitoring station. In view of no marine activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)</u>

- 6.4.7 There was DO exceedance was recorded at Ex-WPCWA SW on 21 December 2015 in the reporting month.
- 6.4.8 After checking with contractor, despite seawall reinstatement works was conducted at TPCWAE on 21 December 2015, contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.

Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

6.4.9 No exceedance was recorded in this reporting month.

Contract no. HK/2012/08- Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

- 6.4.10 There were turbidity exceedances recorded at WSD19 on 30 November 2015, 2, 7, 16, 18, 23 and 26 December 2016 in the reporting month.
- 6.4.11 After checking with contractor, despite trimming of grade 400 rock bedding was conducted near Zone A1 on 30 November 2015, 2 and 23 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above, the exceedances were considered not project related.
- 6.4.12 Despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, constructor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 6.4.13 No marine construction activity was conducted on 16, 18 and 26 December 2015. In view of no marine activity conducted, it was considered that the exceedances were not project related.

- 6.4.14 There was turbidity exceedance recorded at monitoring station P5 on 7 December 2015 in the reporting month.
- 6.4.15 After checking with contractor, despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of no turbidity exceedance recorded at the monitoring stations located between construction area and P5 monitoring station and no turbidity exceedance was recorded on the subsequent monitoring, it was considered that the turbidity was not project related.
- 6.4.16 There was suspended solid exceedance recorded at monitoring station P5 on 7 December 2015 in the reporting month.
- 6.4.17 After checking with contractor, despite installation of slotted panels was conducted near Zone A2 on 7 December 2015, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of no suspended solid exceedance recorded at the monitoring stations located between construction area and P5 monitoring station and no suspended solid exceedance was recorded on the subsequent monitoring, it was considered that suspended solid exceedance was not project related.

Contract no. HY/2010/08 - Central - Wan Chai Bypass (CWB) - Tunnel (Slip Road 8)

6.4.18 No exceedance was recorded in the reporting month.

6.5 Review of the Reasons for and the Implications of Non-compliance

- 6.5.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.5.2 No non-compliances from monitoring was recorded in the reporting month.
- 6.6 Summary of action taken in the event of and follow-up on non-compliance
- 6.6.1 There was no particular action taken since no non-compliance was recorded from the site audit in the reporting period.

7. Cumulative Construction Impact due to the Concurrent Projects

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include caisson seawall installation, ELS works, road works and drainage works and Road P1 pedestrian road reinstatement were performed in December 2015 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works, ELS works and road works at Wan Chai East and caisson installation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, ELS works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park; D- wall construction, ELS works and tunnel works at TS3; IEC removal works and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 were conducted on 2, 9, 17 and 23 December 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.1.*

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by	Outcome
			Contractor	
151202_01	2-Dec-15	Drip tray shall be provided for	Oil container has	Completion as
		oil container at slip road 3	been removed and	observed on 9
			disposed.	December 2015
151209_01	9/12/2015	Drip tray shall be provided to	Oil container has	Completion as
		oil container (Stage 1)	been removed and	observed on 17
			disposed.	December 2015

8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 3, 10, 16 and 23 December 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.2*.

Table 8.2 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
151203_01	3-Dec-15	Hole of drip tray under mechanical pump shall be covered at WCR3	The hole of drip tray has been covered at WCR3.	Completion as observed on 10 December 2015.
151203_02	3-Dec-15	The gap of silt curtain at RW21-P789 shall be minimized to properly maintain the silt curtain condition.	Silt curtain at RW21-P789 has deployed to seabed level.	Completion as observed on 16 December 2015.
151216_01	16-Dec-15	Hole and gap shall be repaired for silt curtain at RW21-P789, and ensure it is properly maintained.	repaired and properly	Completion as observed on 23 December 2015.

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 2, 9, 15 and 22 December 2015 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
151209_1	9-Dec-2015	Review the conditioning and coagulant dosage applied to ensure no turbid discharge (EX-PCWAW)	No further turbid discharge was observed	Completed as observed on 15 December 2015
151215_1	15-Dec-2015	Discharge point of washing sink shall be connected to waste water treatment plant	Discharge point of washing sink has been connected to	Completed as observed on 22 December 2015

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (December 2015)

Item	Date	Observations	Action taken by Contractor	Outcome
		(EX-PCWA East)	collection pit (EX-PCWA East)	

8.0.5. Four site inspections for Contract no. HY/2009/19 were carried out on 2, 9, 17 and 23 December 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.4*.

Table 8.4 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Outcome
151202_	1 2/12/2015	Noise barriers provided to	No further	Completion as
		construction of substructure	construction of	observed on 21
		works shall installed	substructure was	December 2015
		according to EP condition	observed and the	
		(Portion III)	barrier was installed	
			as per requirement	

8.0.6. Four site inspections for Contract no. HK/2012/08 were carried out on 1, 8, 15 and 22 December 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5*

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
151208_01	8-Dec-15	Floating refuse shall be collected at Zone A2 area.	Floating refuse was cleared at Zone A2.	Completion as observed on 15 December 2015
151208_02	8-Dec-15	Silt curtain at the opening of water channel shall be repaired and properly maintain.	Silt curtain was repaired and properly deployed.	Completion as observed on 15 December 2015
151222_01	22-Dec-15	Muddy effluent at site exit and public road shall be cleaned regularly in an orderly manner.	The site exit and public road were cleaned properly.	Completion as observed on 29 December 2015
151222_02	22-Dec-15	Direct discharge from boxes was observed at water channel, contaminated effluent shall be collected in proper manner and treated before discharge.	Discharge was stopped and no further discharge was observed.	Completion as observed on 22 December 2015

8.0.7. Eight site inspections for Contract no. HY/2010/08 were carried out on 2, 3, 9, 11, 14, 16, 22 and 24 December 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6*

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by	Outcome
		Piping with ide ends shall	Contractor Idle pipes were	Completion as
151202_1	2-Dec-15	be removed to avoid	removed	observed on 3
		potential discharge (TS3)		December 2015
		The contractor shall	The holding tank of	Completion as
151202 2	2 Doc 15	critically review the storage	concern was abandon from used.	observed on 9 December 2015
151202_2	2-Dec-15	holding tank to avoid overflow to nearby water	abandon nom used.	December 2015
		(TS3)		
		Review the dosage and	No further turbid	Completion as
151202_3	2-Dec-15	operation of waste water	discharge was	observed on 3
_		treatment plant to avoid turbid discharge (TS3)	observed	December 2015
		Effluent pipe from the	The piping from the	Completion as
		silting compartment of the	desilting	observed on 14
454000 4	0 Dec 45	waste water treatment	compartment was	December 2015
151202_4	2-Dec-15	plant shall be properly	stored properly to	
		connected to a collection	avoid accidental	
		pit or disconnected (TS3)	discharge.	
454000 5	0 Dec 45	Clean the leaked oil as	Leaked oil has	Completion as
151202_5	2-Dec-15	chemical waste (TS3)	been cleared	observed on 3 December 2015
		Damaged barrier around	Damaged barrier	Completion as
151203_1	3-Dec-15	site boundary shall be	was repaired	observed on 9
_		repaired (Victoria Park)		December 2015
		Drip tray shall be provided	The chemical	Completion as
151203_2	3-Dec-15	for chemical containers	container was	observed on 9
			removed	December 2015
		Clear the soil deposit at the boundary of site location to	Mud residue deposited has been	Completion as observed on 16
151209_1	9-Dec-15	prevent direct wash off of	cleared	December 2015
	0 200 .0	contaminated effluent (TS3	0.00.00	200000. 20.10
		North)		
		Tarpaulin sheet shall be	The tarpaulin	Completion as
		provided/reinstated after	sheeting was	observed on 11
151209_2	9-Dec-15	reposting of barge prior to resumption of excavated	rearranged at	December 2015
		material transfer to prevent	proper position for excavated material	
		drop off	transfer	
		Contractor was advised to	The mud residue	Completion as
		clean the mud deposit	within the treatment	observed on 14
		within waste water	unit was cleared	December 2015
151211_1	11-Dec-15	treatment plant before		
1		resumption of plant		
		operation to avoid discharge contamination		
		(Victoria Park)		
		Review the adequacy of	The condition of the	Completion as
151211_2	11-Dec-15	the barrier in height to	barrier was	observed on 14
101211_2	11-Dec-13	ensure sufficient height of	improve.	December 2015
		2.4m (Victoria Park)	Election of the	Openia (Company
151211_3	11-Dec-15	Clear the floating scum around works boundary	Floating refuse have been cleared	Completion as observed on 14
101211_3	11-060-13	(TS3)	nave been dealed	December 2015
		(100)		December 2013

151211_4	11-Dec-15	Provide drip tray for chemical container (Victoria Park Road)	The chemical container was removed	Completion as observed on 14 December 2015
151214_1	14-Dec-15	Provide watering to breaking works (TS3)	No further concerned breaking works was observed	Completion as observed on 16 December 2015
151216_1	16-Dec-15	Critical review the capacity and operation of waste water treatment plant and avoid potential turbid discharge (TS3 West)	No further turbid discharge was observed	Completion as observed on 22 December 2015
151216_2	16-Dec-15	Drip tray shall be provided to oil containers (TS3)	Oil container was removed	Completion as observed on 31 December 2015
151224_1	24-Dec-15	Fine particular was observed at the outlet tank of the wastewater treatment system. The contractor was advised to review the operation condition and dosage and recirculate for treatment before discharge (TS3 West)	No further fine particulates were observed	Completion as observed on 29 December 2015
151224_2	24-Dec-15	Clean the mud/silt deposition to ensure proper settling prior to resuming the plant operation (Victoria Park)	The mud deposition was cleared	Completion as observed on 29 December 2015

9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was no environmental complaint received in this reporting month.
- 9.0.2. Referring to the complaint case regarding the illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015, the updated 2nd and 3rd interim investigation report were submitted to the EPD on 17 December 2015 and 31 December 2015 respectively. In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.
- 9.0.3. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.4. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	44
December 2015	0
Total	44

Table 9.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



10. Conclusion

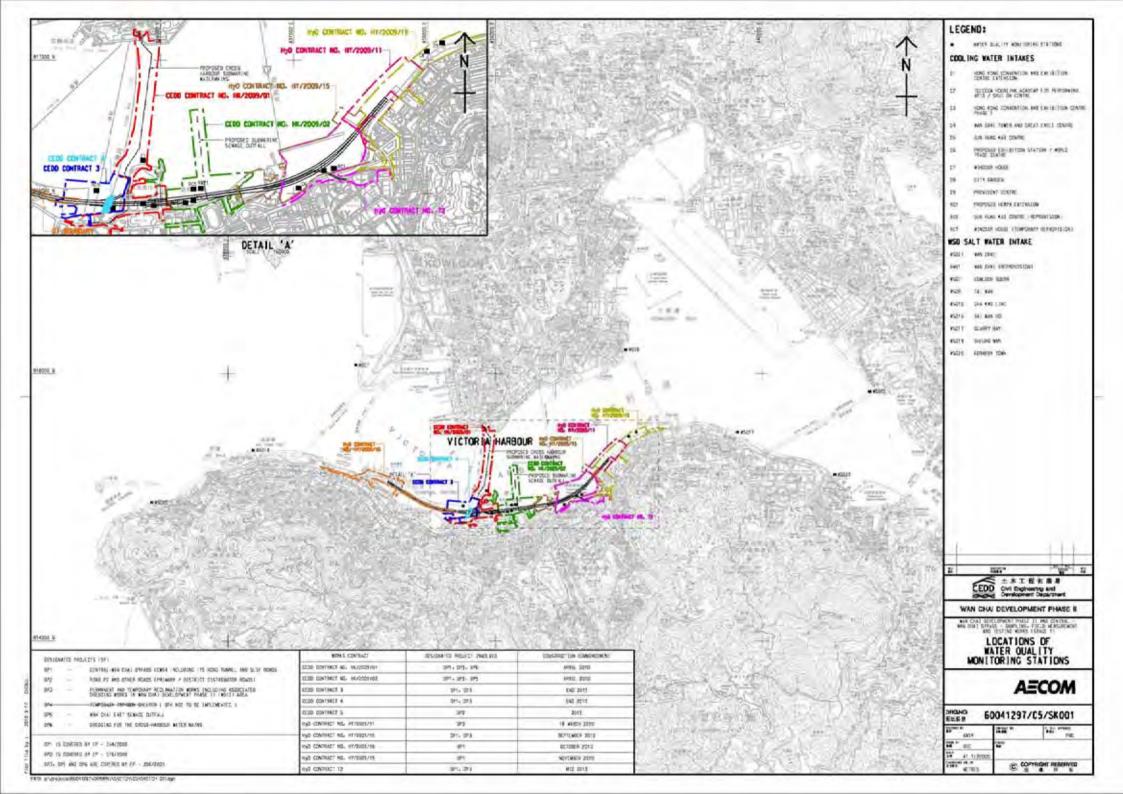
- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

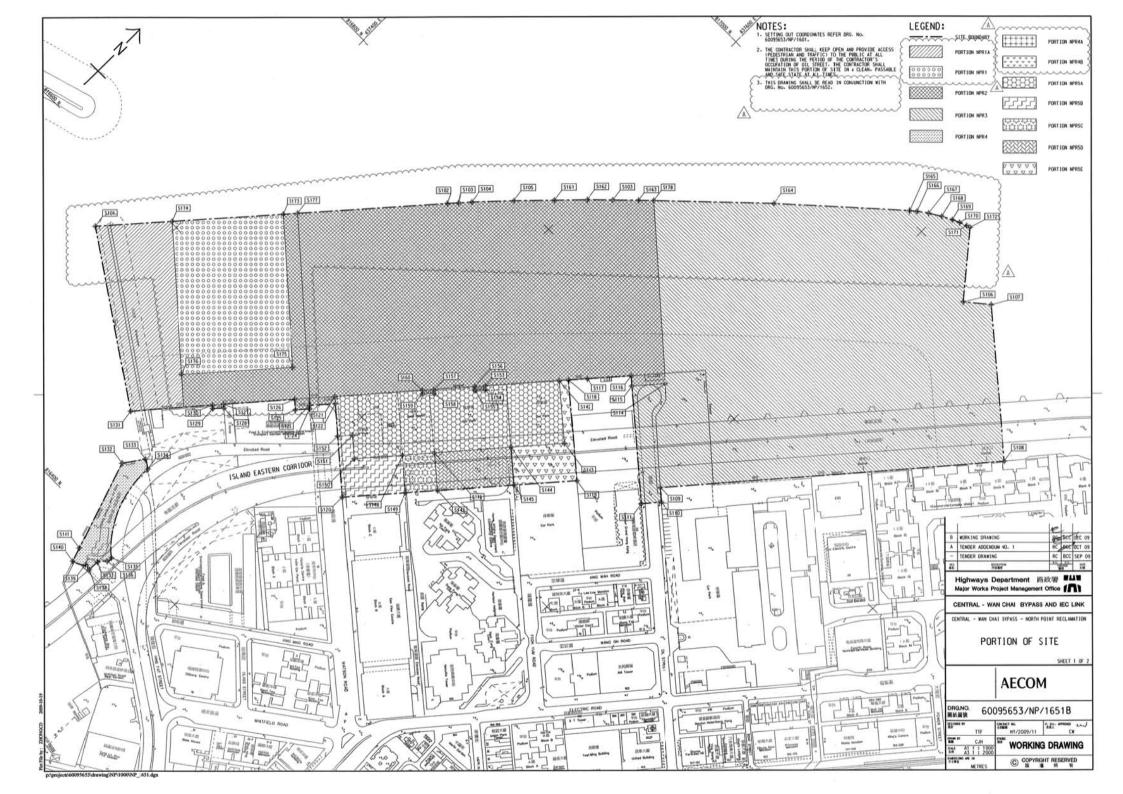
Table 10.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

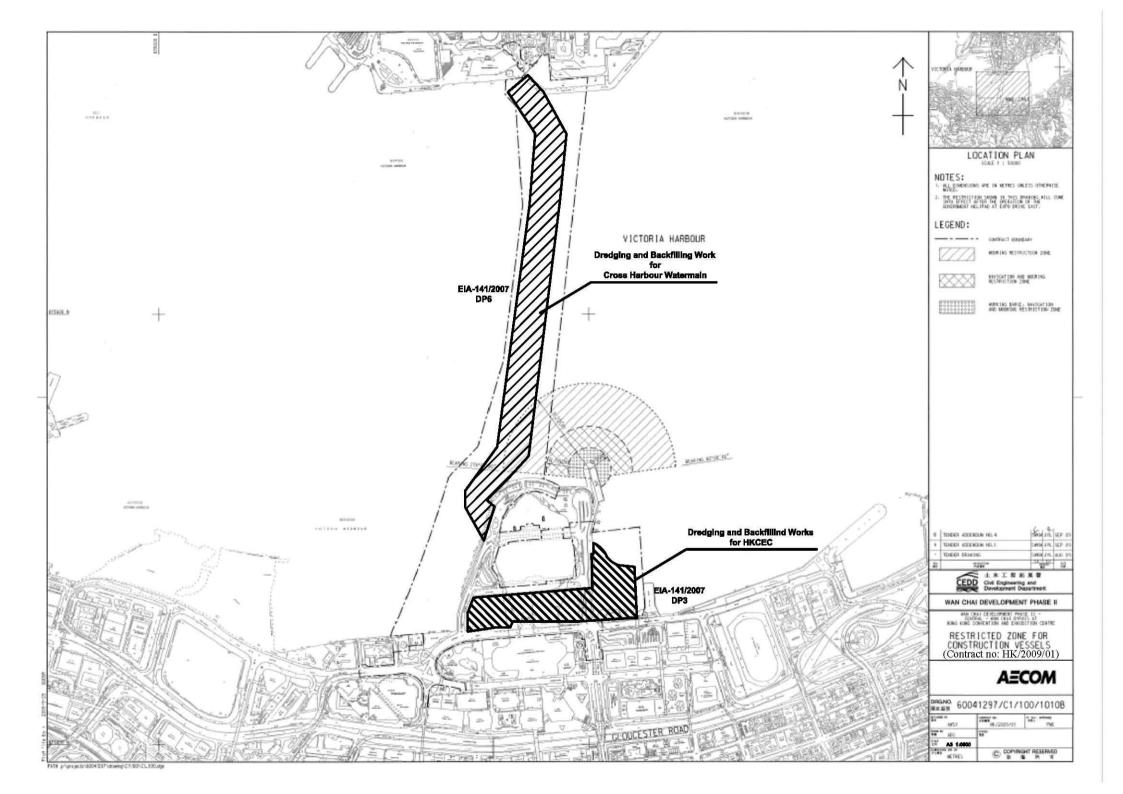
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Nil	• Nil
HK/2009/02	• Nil	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly. Implement silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/15	Reinstatement of vertical seawall at TPCWAE	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly Implement silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/19	• Nil	• Nil
HK/2012/08	 Construction of culvert Construction of dry dock Trimming of rock bedding 	 To conform the installation and setting as in the silt screen and silt curtain deployment plan To space out noisy equipment and position as far as possible from sensitive receiver. Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2010/08	Diversion pipe maintenance	 To conform the installation and setting as in the silt screen and silt curtain deployment plan Daily visual inspection of silt screen and silt curtain to ensure its operation properly

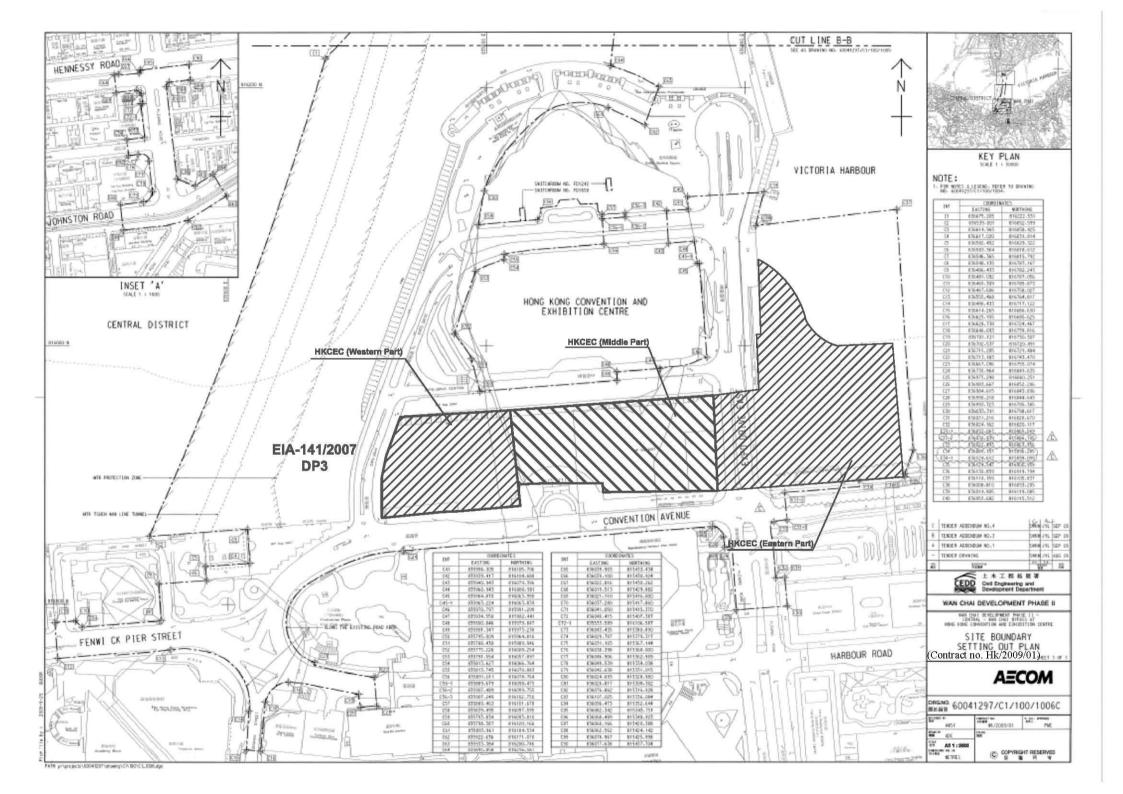
Figure 2.1

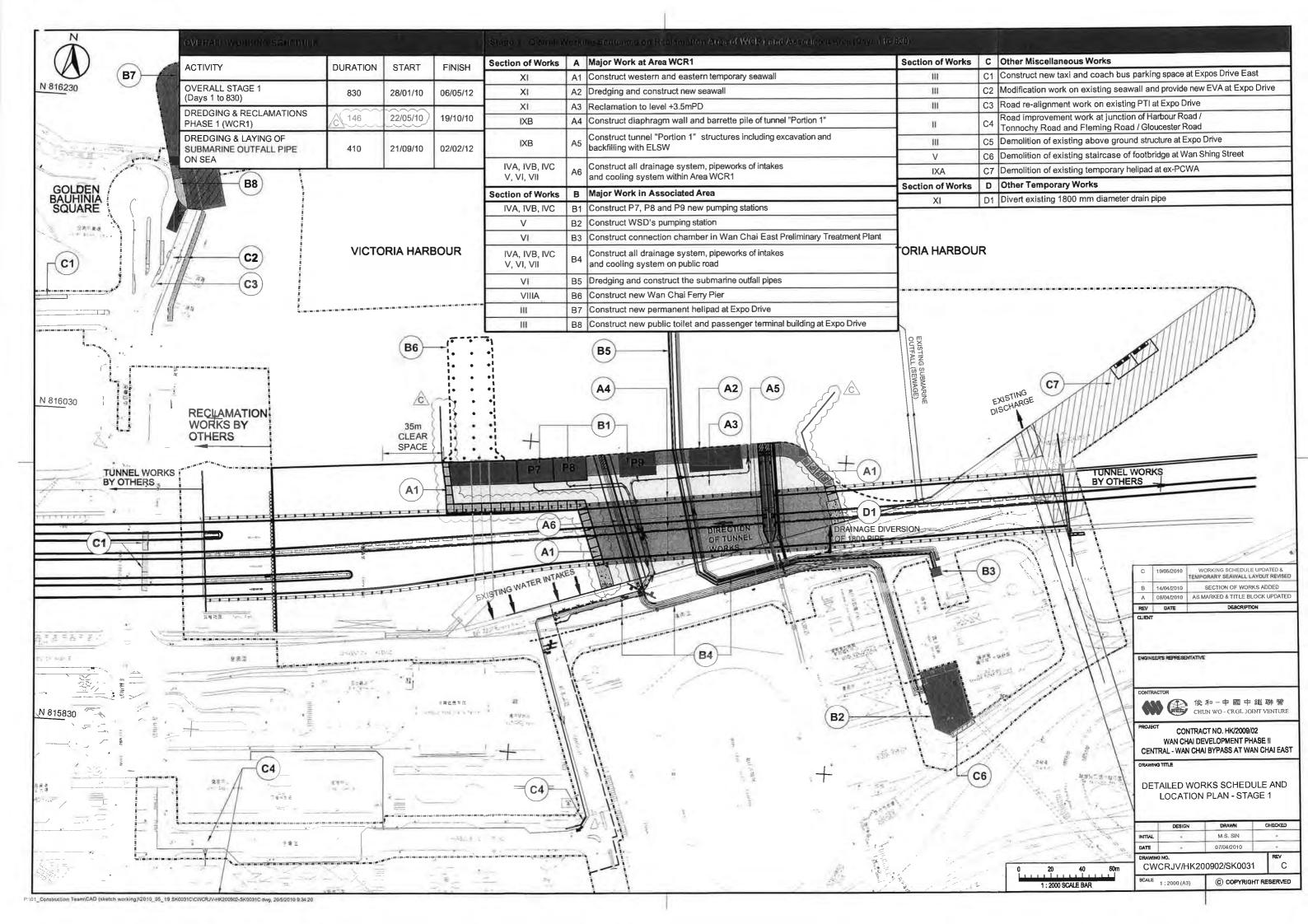
Project Layout

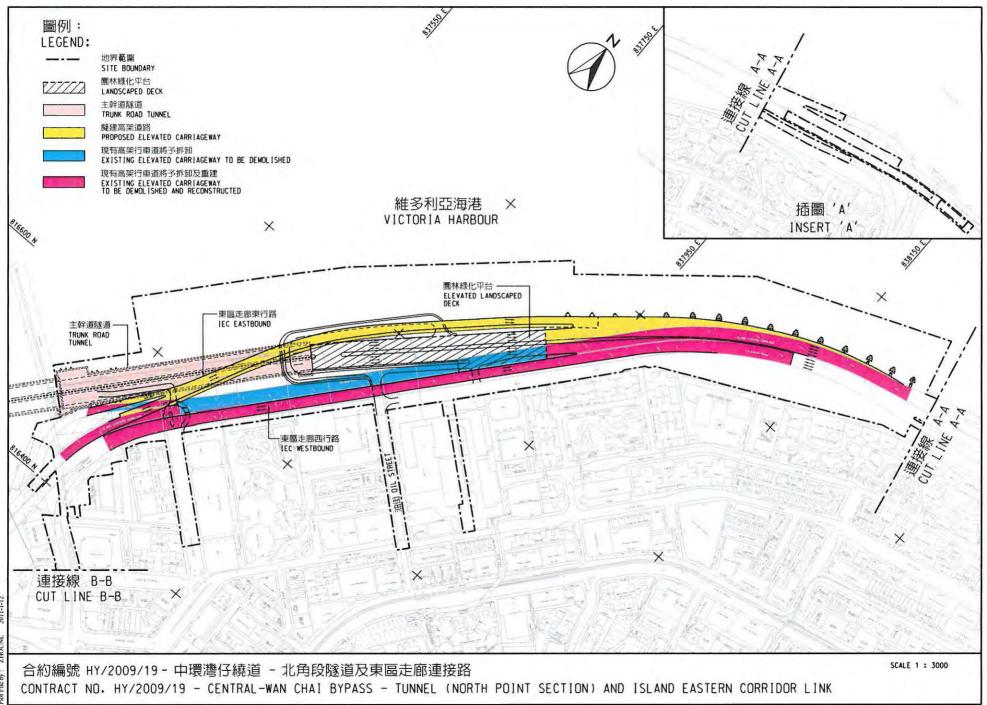


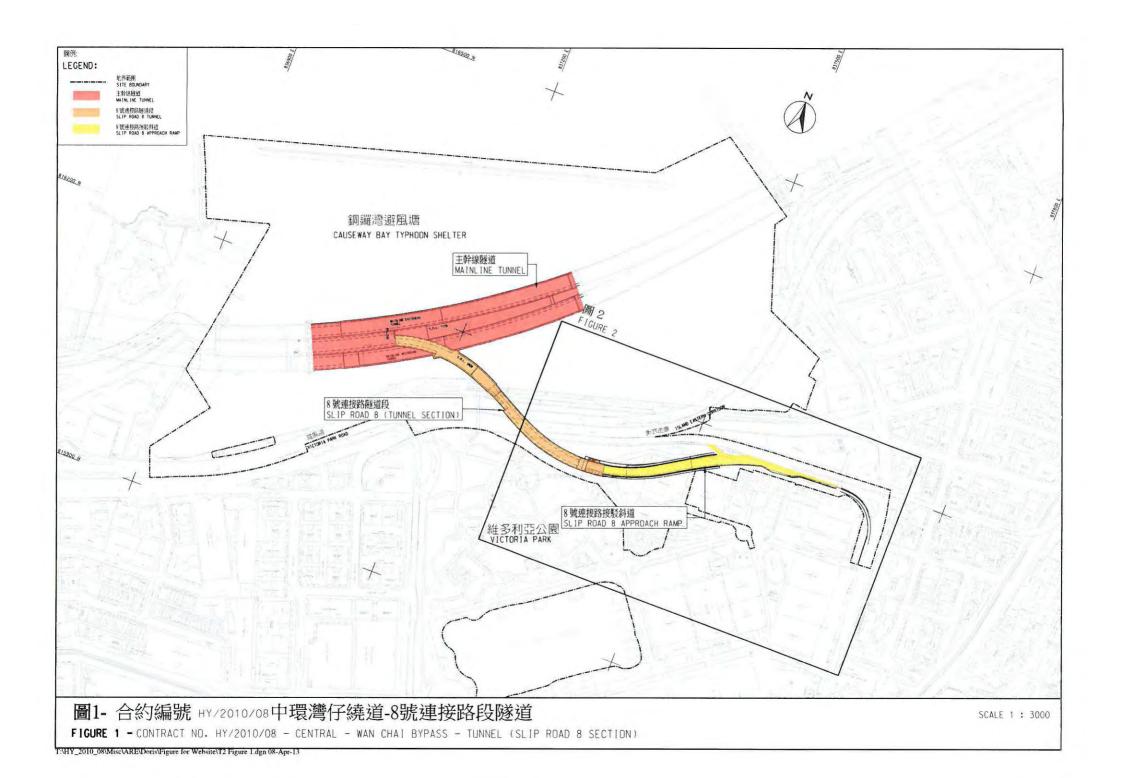


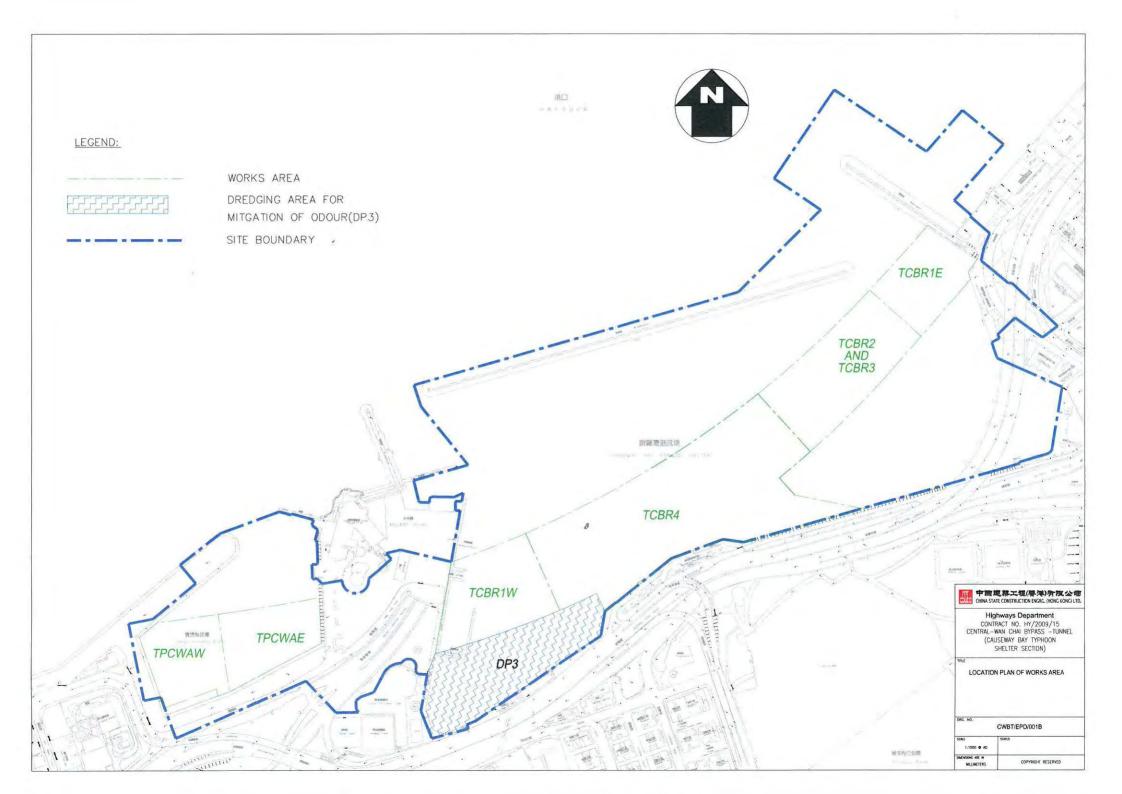












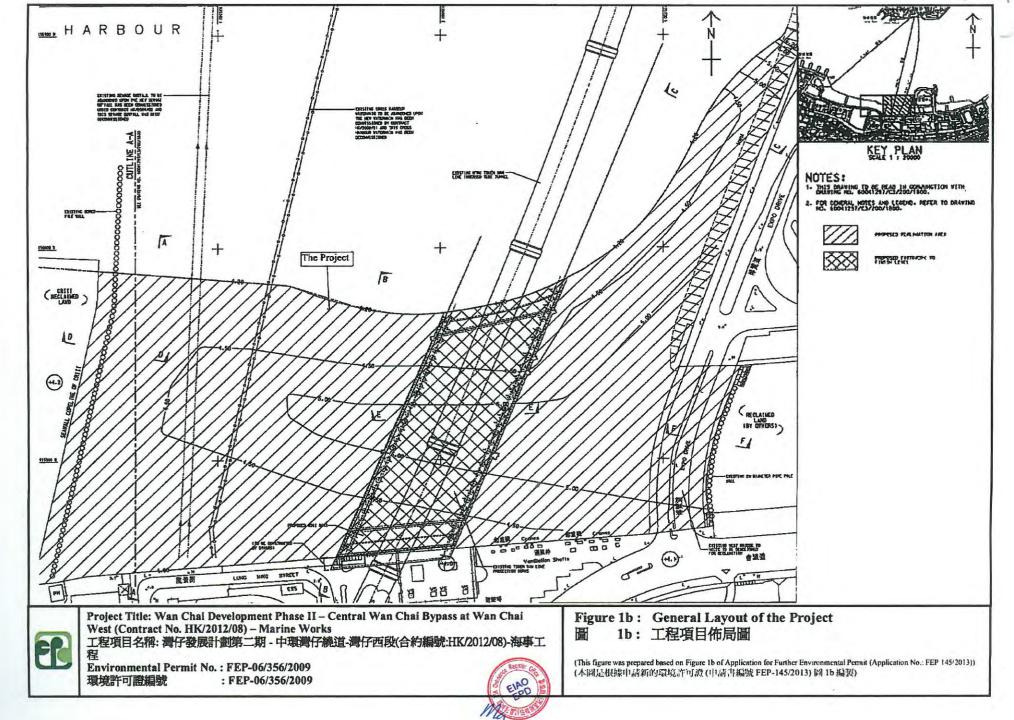


Figure 2.2

Project Organization Chart

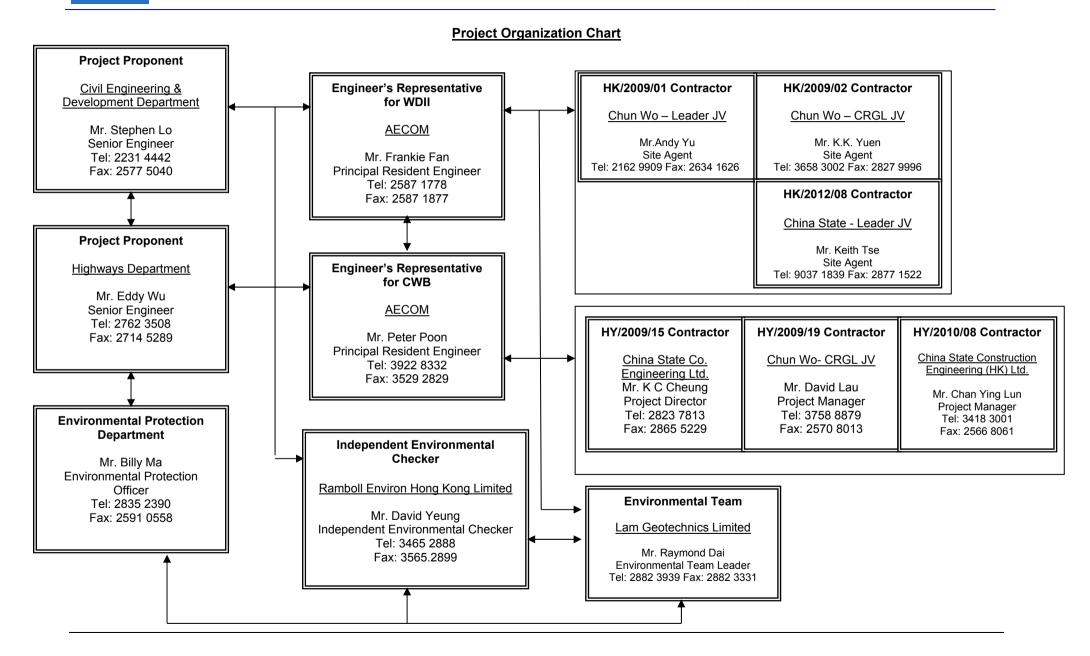
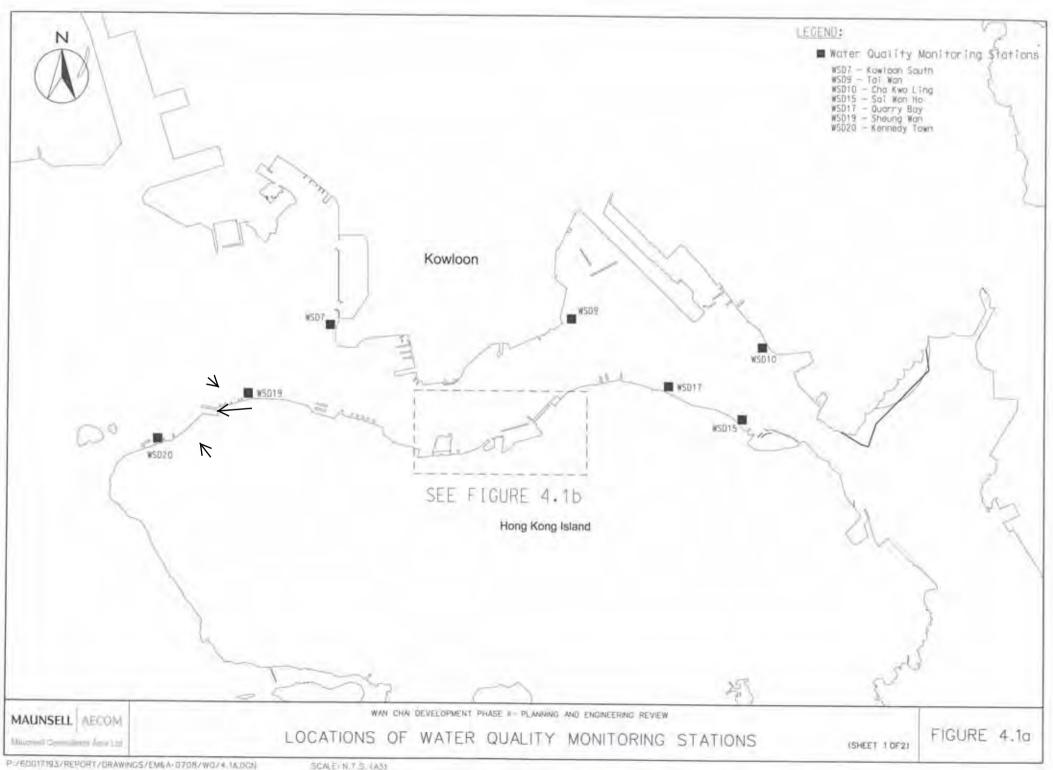
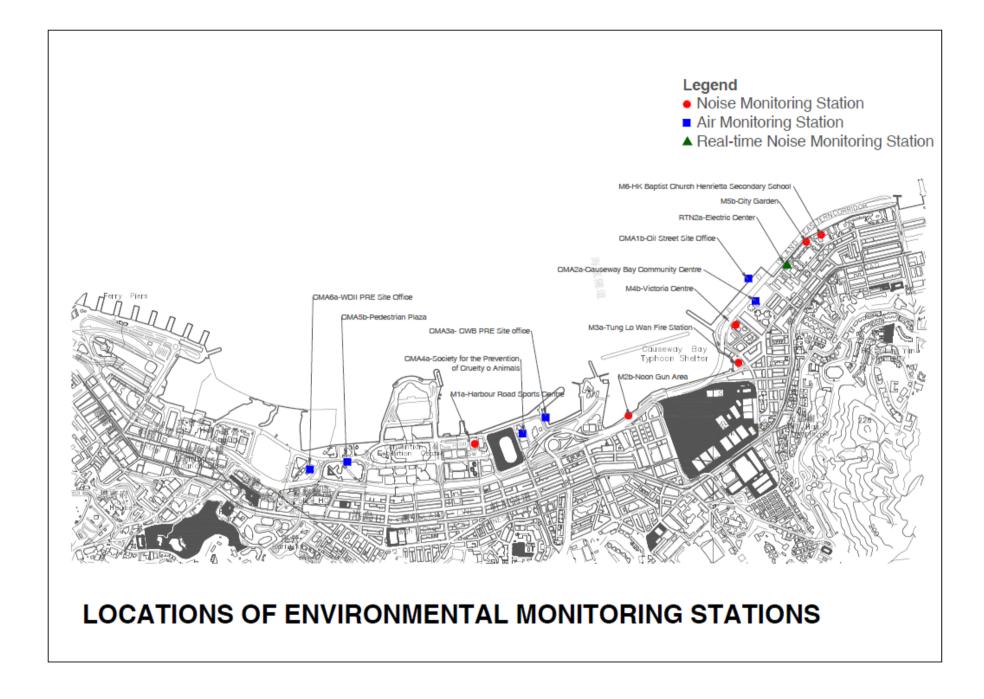
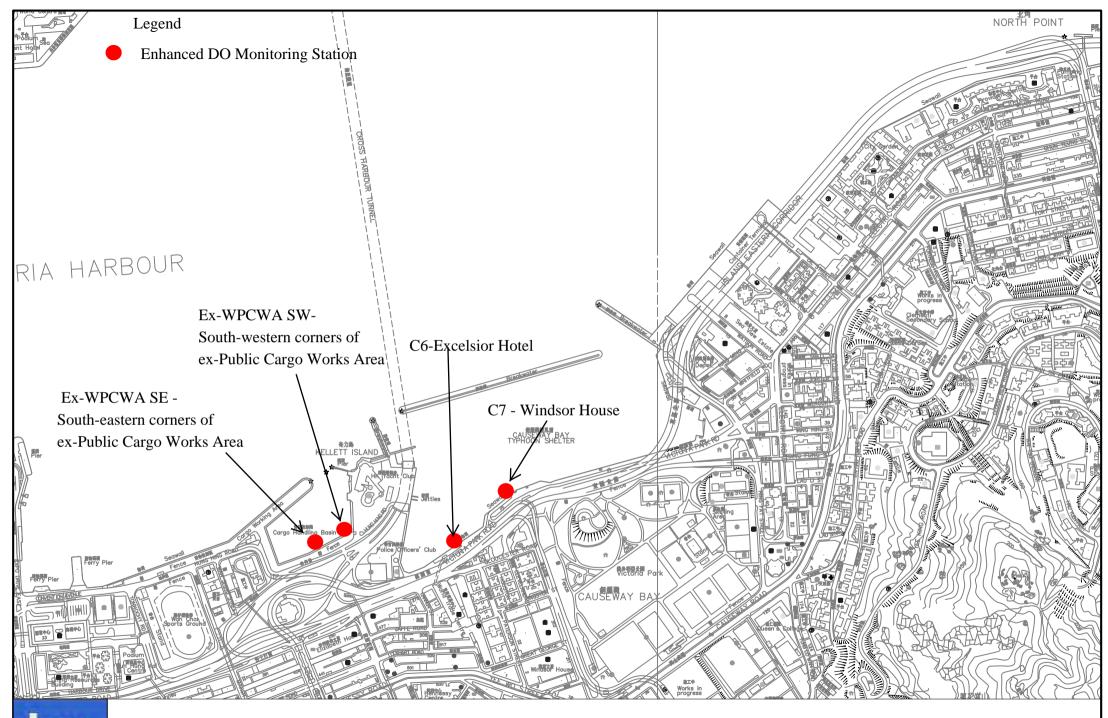


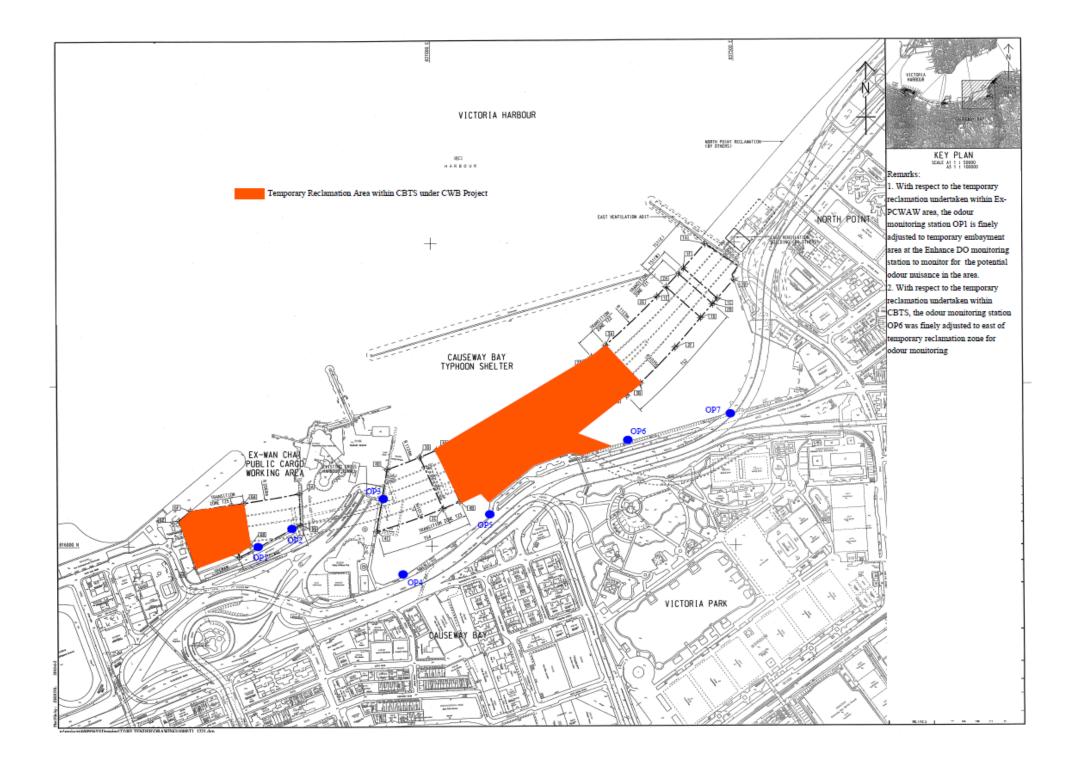
Figure 4.1

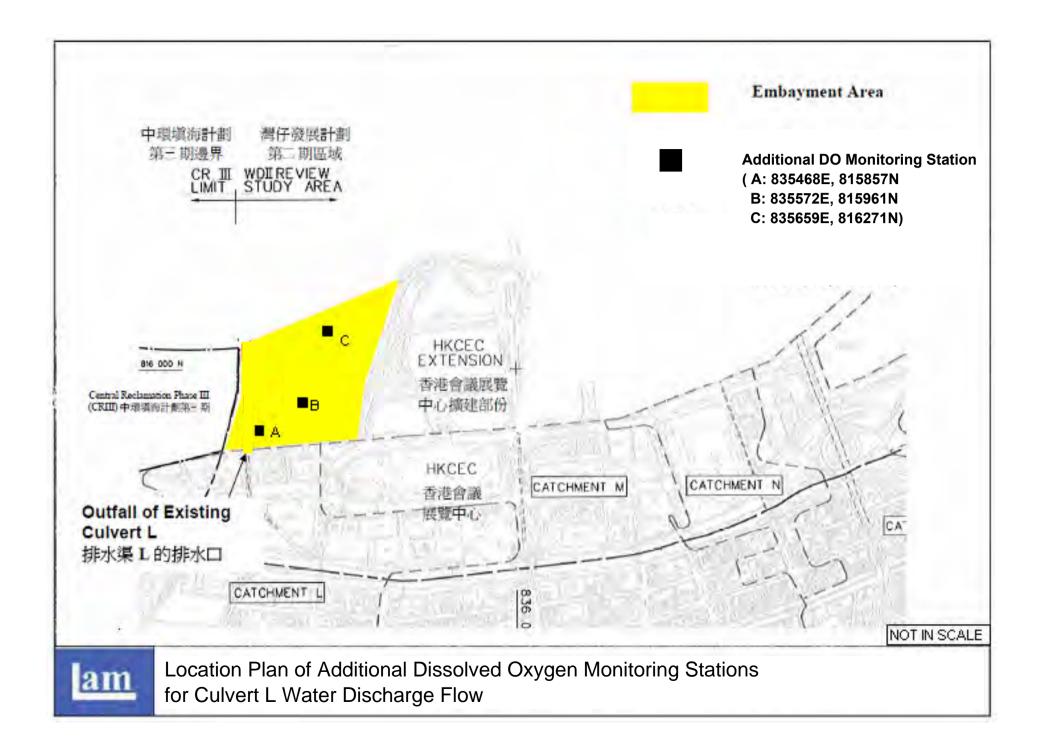
Locations of Monitoring Stations

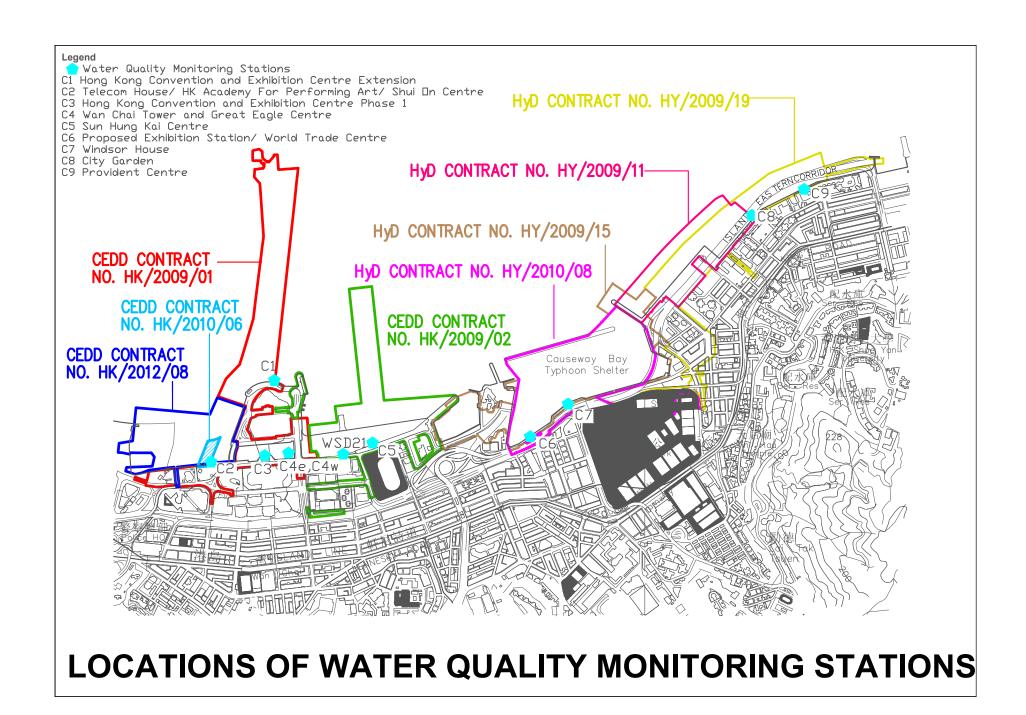


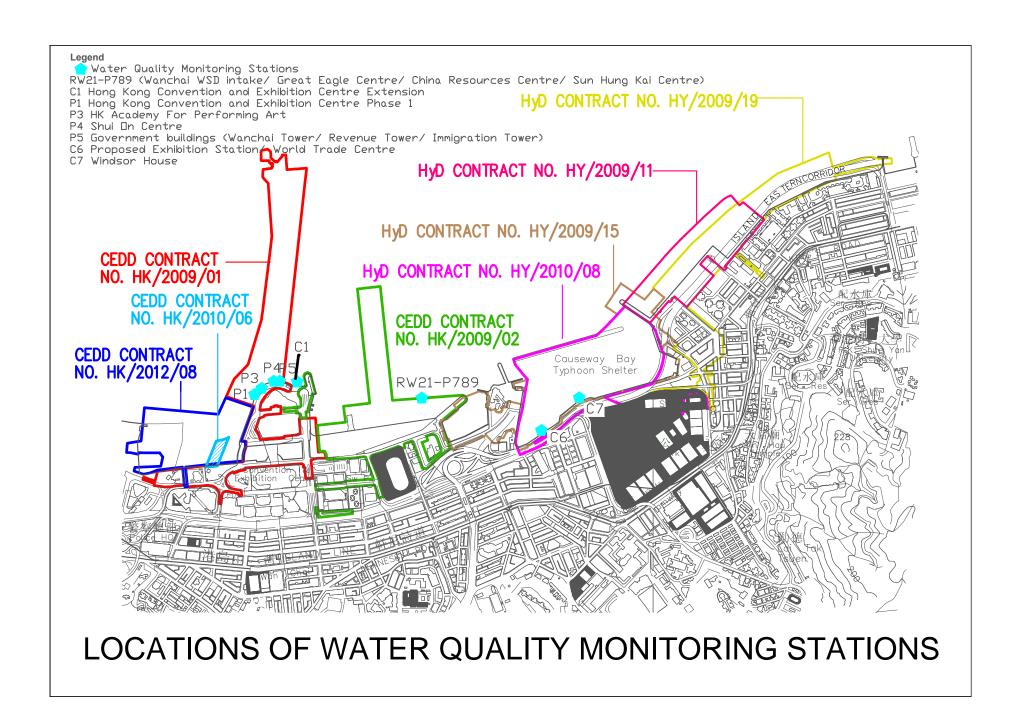


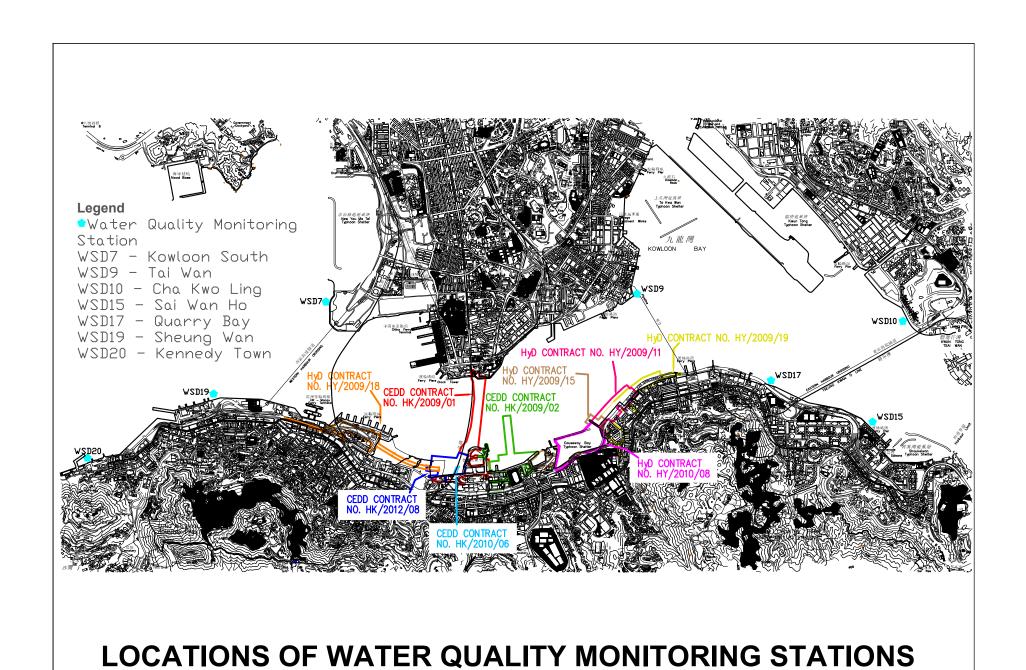


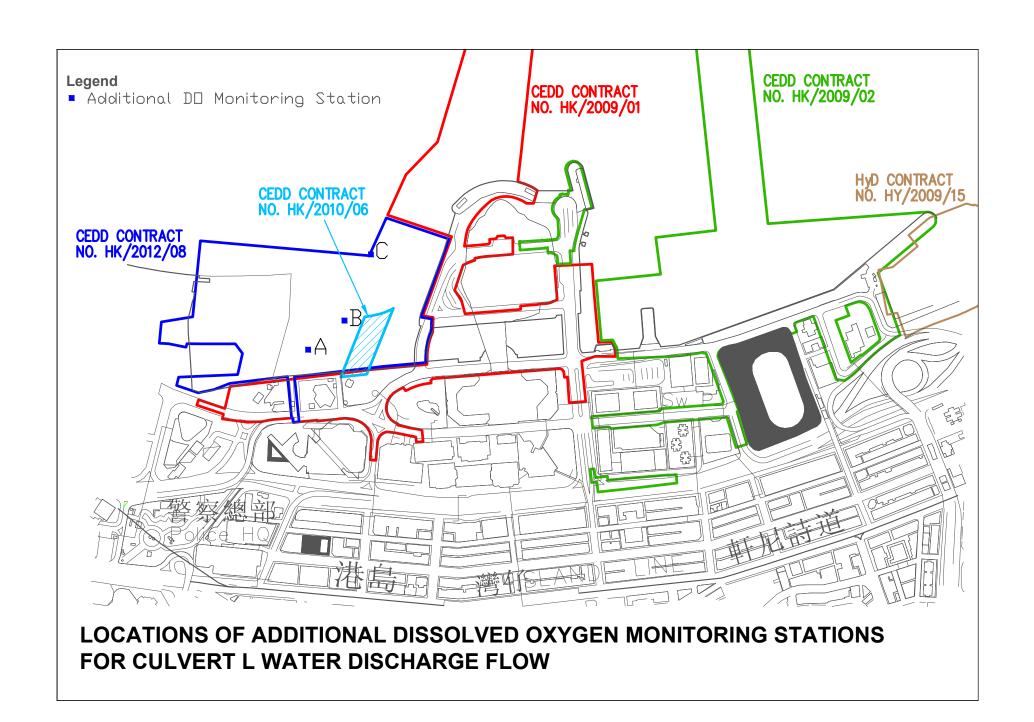












Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation
		8	Agent	Des	C	o	Dec	and Guidelines
Constructio								
For the Who	ole Project							
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	Work site / during construction	Contractor		٨			

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111111	22/10 omited in 1 occord in 1	Doewion, Timing	Agent	Des	C	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		√			EIAO-TM
Operation I	Phase	I	I	l	1	1	1	
For the Who	ole Project		·					·

¹ CEDD will identify an implementation agent.

 $^{^{\}rm 2}$ CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Ref Environmental Protection Measures / Mitigation Measures Location / Timing -		Implementation	In	Implementation Stages*		on	Relevant Legislation
	Zarra ominina i i oceana vicuota co / vicuota co	Location, Timing	Agent	Des	C	0	Dec	and Guidelines
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any ongoing odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			√		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
S3.6.53 -	The design parameters of the East and Central Ventilation	East and Central	HyD			1		
S3.6.54	Buildings as set in Tables 3.10 and 3.11	Ventilation Buildings / During operation of the Trunk Road						
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			1		EIAO-TM

• Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

Contract no. HK/2011/07

 $\label{thm:chain} \mbox{Wan Chai Development Phase II and Central-Wanchai Bypass}$

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

Construction Phase	EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	1	entati ges* O	on Dec	Relevant Legislation and Guidelines
Constituction I mast	Constructio	n Phase							

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
22.2.10.	Zivi oznacima 11000000 izanom oz viniginom izanom oz	Location / Timing	Agent	Des	C	0	Dec	and Guidelines
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 	Work Sites / During Construction	Contractor		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			EIAO-TM, NCO
For DP1 –	CWB (Within the Project Boundary)							

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
S4.8.5 S4.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Temporary road diversion Resurfacing At-grade roadwork	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP3 -	Reclamation Works							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: Filling behind seawall Seawall construction	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation
	8		Agent	Des	C	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: • Installation of a new pipeline (land section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		1			EIAO-TM, NCO

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
			Agent	Des	C	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 -	CWB (Within the Project Boundary)							

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	О	Dec	and Guidelines
S4.8.14 – S4.8.18	For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel	Near North Point / Before commencement of operation of road project	HyD	√ √	√	√		EIAO-TM
	on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	√	√#			

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Es Location / Timing	Implementation	In	Implementation Stages*		on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project	1				
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

^{*} Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

[#] Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entati ges*	on	Relevant Legislation
LIII KCI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	C	0	Dec	and Guidelines
Construction	on Phase							
For DP3 - Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	sim Sh	a Tsu	i), DP	1 – CW	B (within the Project
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Prot	tection Measures / N	Aitigation	ı Measures		Location /	Implementation	Ir	nplem Sta	entati ges*	ion	Relevant Legislation			
						Timing	Agent	Des	C	О	Dec	and Guidelines			
S5.8	The water body behir typhoon shelter shall			s within the	Causeway Bay	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO			
S5.8	As a mitigation meas within the tempor impermeable barrier	ary embayment be	tween C	RIII and	HKCEC1, an	Work site / During the construction	Contractor		√			EIAO-TM, WPCO			
	the HKCEC1 commodischarge flows from contractor will ma	and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.				period	od								
S5.8, Figure 5.3	The total dredging rathan the maximum production rates with	production rates state	d in the t	able below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
	Reclamation Area Reclamation from m³ per hour (m³)		Maximum Dredging Rate (m³ per week)												
	Duadaina along saguall	ou buoglavatou		per day)	L										
	Dredging along seawall or breakwater North Point Shoreline Zone (NPR) 6,000 375 42,000		42,000												
	Causeway Bay	TBW	1,500	94	10,500										
	Shoreline Zone	TCBR	6,000	375	42,000										
	PCWA Zone		5,000	313	35,000										

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) 6,000 375 42,000 HKCEC Shoreline Zone (HKCEC) HKCEC Stage 1 & 3 1,500 94 10,500 (HKCEC) HKCEC Stage 2 6,000 375 42,000 Cross Harbour Water Mains 1,500 94 10,500 Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500							
	Note: 1,500 m ³ per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBRIW, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Interim Construction Location of Applications	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	S	Timing	Agent	Des	C	О	Dec	and Guidelines
	TBW, NP and Water Mains Zone Convention and Exhibition Centre Phase I, Telecon House / HK Academy for Performing Arts / Shun Or Centre, Wan Chai Tower / Revenue Tower Immigration Tower and Sun Hung Kai Centre Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR. Convention and Exhibition Centre Phase I, Telecon House / HK Academy for Performing Arts / Shun Or Centre, Wan Chai Tower / Revenue Tower Immigration Tower and Sun Hung Kai Centre (Cooling water intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Governmen Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR. WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsio Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	Other mitigation measures include: • mechanical grabs, if used, shall be designed and maintained to avo spillage and sealed tightly while being lifted. For dredging of an contaminated mud, closed watertight grabs must be used; • all vessels shall be sized so that adequate clearance is maintained betwee vessels and the seabed in all tide conditions, to ensure that und	construction period	Contractor		1			ProPECC PN 1/94; WPCO (TM-DSS)
	turbidity is not generated by turbulence from vessel movement propeller wash; all hopper barges and dredgers shall be fitted with tight fitting seals	or						
	their bottom openings to prevent leakage of material; construction activities shall not cause foam, oil, grease, scum, litter other objectionable matter to be present on the water within the site dumping grounds;	or						
	loading of barges and hoppers shall be controlled to prevent splashing dredged material into the surrounding water. Barges or hoppers shall n be filled to a level that will cause the overflow of materials or pollut- water during loading or transportation; and	ot						

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
	before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
22.7.10.7	Zinyi olimetikii 1 tottettoi intensii es / intensii es	Timing	Agent	Des	C	0	Dec	and Guidelines
\$5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only I small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the Sgenerated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>		1			WPCO

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EIA Ref	Fr	nvironmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
LIA KU	Li	ivitolimental Protection (vicasures / ivitigation (vicasures	Timing	Agent	Des	C	0	Dec	and Guidelines
For the Wh	ole .	Project					•		
S5.8	•	Construction Runoff and Drainage	Work site	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	•	use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;	/ During the constructi on period						WFCO (TM-D33)
	•	Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;							
	•	a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal;							
	•	oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain;							
	•	precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events;							
	•	on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge;							
	•	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer							

 $^{^{3}}$ CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
	8	Timing	Agent	Des	Des C O Dec		Dec	and Guidelines
	required.							
	All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.							
	Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	Floating Debris and Refuse Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		1			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation	
2111101	23. To the total of the total o	Timing	Agent	Des	C	o	Dec	and Guidelines	
\$5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO	
Operation	Phase	I.	l.		1		1	<u>I</u>	
	B (within the Project Boundary)								
\$5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.	CWB/During design and operational period	HyD/TD ³	√ 		√		WPCO	
	Petrol interceptors shall be regularly cleaned and maintained in good working condition.								
	Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.								
	Sewage arising from ancillary facilities of CWB (for examples, car park,								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entatio	on	Relevant Legislation
	Zana omitoria a control a	Timing	Agent	Des	C	О	Dec	and Guidelines
	control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities. • Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff. • The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.							

^{*} Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

 $^{^{3}\,\}mathrm{if}$ employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		b	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
For DP3 -	Reclamation Works							
S6.7.2	Marine Sediments The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.	Work site / During the construction period	Contractor		√ 			ETWB TCW No. 34/2002
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm³. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		on	Relevant Legislation	
		Agent	Des	C	О	Dec	and Guidelines
It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall							
	appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall	Environmental Protection Measures / Mitigation Measures It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent Des C It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent Des C O It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent Des C O Dec It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	8	g	Agent	Des	C	О	Dec	and Guidelines
	Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.							
S6.6.12	Floating Refuse During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		√			
For the Wh	ole Project	,						,

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	C	О	Dec	and Guidelines
S6.7.7	Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	Work site / During the construction period	Contractor		\ \ !			Waste Disposal Ordinance (Cap.354)

- Sampling, Field Measurement and Testing Works (Stage 2)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
S6.7.8	Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; • any unused chemicals or those with remaining functional capacity shall be recycled; • use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. • prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; • proper storage and site practices to minimise the potential for damage or contamination of construction materials; and • plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Work site / During planning and design stage, and construction stage	Contractor	1	7			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation and Guidelines
		_	Agent	Des	C	0	Dec	and Guidennes
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		1			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		1			ETWB TCW No. 31/2004
S6.7.14	Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows:	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.							
	If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.							
	If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.							

^{*} Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation	
21.1101	23. To office the control of the con	Economy 11mmig	Agent	Des	C	0	Dec	and Guidelines	
Construction	on Phase								
For the Wh	ole Project								
S.12.6	The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94	
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: • Excavation profiles must be properly designed and executed; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; • Quantities of soil to be excavated must be estimated; • It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. • Temporary storage of soil at intermediate depot or on-site	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation	

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
			Agent	Des	C	o	Dec	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:							Water Pollution Control Ordinance

Appendix 3.1	٩pper	ıdix	3.	1
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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111101	Zarra omnorma i i soccioni rizonsmico, rizongmico rizonsmicos	Document Timing	Agent	Des	C	O	Dec	and Guidelines
	Air Quality Mitigation Measures The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.							
	Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).							

EIA Ref	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Agent	Implementation	In	nplem Sta	entati ges*	Relevant Legislation		
			Agent	Des	C	0	Dec	and Guidelines
	Water Quality Mitigation Measures Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO. Waste Mitigation Measures Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment.							
	 Stabilized soils shall be broken into suitable size for backfilling or reuse on site. A high standard of housekeeping shall be maintained within the mixing plant area. If necessary, there shall be clear and separated areas for 							

^{*} Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	O	Dec	and Guidelines
Construction	on Phase							
For the Wh	ole Project - Schedule 3 DP							
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 -	Reclamation Works							
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	1				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	Zivi oimona 1 Tottottoi Natala (Carata)	Bookin, 1mmg	Agent	Des C O D		Dec	and Guidelines	
S.9.7.4	During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: • Installation of silt curtains during dredging activities • Use of tightly-closed grab dredger • Reduction of dredging rate • Control of grab descending speed • Construction of leading edges of seawall in the early stages of the reclamation works	Work site / during construction phase	Contractor		√ 			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
_	Adoption of multiple-phase construction schedule							

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Iı	Implementation Stages*			Relevant Legislation
2111101	Zaria ominera i rottotton i zenom co / riangunon i zenom co	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
8.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended: • Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. • Adoption of multiple-phase construction schedule. • General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be	Work site / during construction phase	Contractor		√ 			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	effectively implemented. Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

^{*}Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir		entati ges*	on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Construction	Phase			•					•
For the Whole	Project								
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	1			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)	1						
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	1			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		1			EIAO TM

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	res / Mitigation Measures Location / Timing	Implementation Agent	Implementation Stages*			ion	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 – WD	II Maio	or Roads (Road P2)							
Table 10.5		Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - War	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	СМЗ	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

Monthly EM&A Report

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
	ss-Harb	our Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se					-			
For the Whole	Project	- Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	1	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2	Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	1	1		ETWB TCW 2/2004

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing Implementati Agent		Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		and associated structures.	Design Stage and Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <u></u>	V	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	1	1	1		ETWB TCW 2/2004
For DP1 - CW	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	√		√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Design Stage and Operation Phases						
Table 10.6, Figure 10.5.1- 10.5.5	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During Design Stage and Operation Phases	HyD	V	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	1	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	1	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas. *Roads (Road P2)	Work site / During Design Stage and Operation Phases	HyD	√	V	1		ETWB TCW 2/2004

⁴ CEDD will identify an implementation agent

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures L		Location / Timing Implementa Agent		on Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	1		ETWB TCW 2/2004
For DP3 - Rec	lamatio	n Works							
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD⁵_	√	V	√		ETWB TCW 2/2004

^{*}Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

 $^{^{\}rm 5}$ CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 1}

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Lev	el in μ g/m 3	24-hour TSP Le	24-hour TSP Level in μ g/m ³		
	Action Level	Limit Level	Action Level	Limit Level		
CMA1b Note 2	320.1	500	176.7	260		
CMA2a	323.4	500	169.5	260		
CMA3a Note 2	311.3	500	171.0	260		
CMA4a	312.5	500	171.2	260		
CMA5b Note 2	332.0	500	181.0	260		
CMA6a Note 2	300.1	500	187.3	260		

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.
- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season							
Farameters	Action	Limit	Action	Limit						
WSD Salt Water Intake										
SS in mg L ⁻¹	13.00	14.43	16.26	19.74						
Turbidity in NTU	8.04	9.49	10.01	11.54						
DO in mg/L	3.66	3.28	3.17	2.63						
Cooling Water Intal	Cooling Water Intake									
SS in mg L ⁻¹	15.00	22.13	18.42	27.54						
Turbidity in NTU	9.10	10.25	11.35	12.71						
DO in mg/L	3.36	2.73	3.02	2.44						

Remarks.

 Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

Action and Limit Levels for Odour Patrol

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above is measured from odour intensity analysis.

Appendix 4.2

Copies of Calibration Certificates



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510387

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 07/10/2015 DATE OF ISSUE: 14/10/2015

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Turbidity	
Turbidimeter	
Xin Rui	
WGZ-3B	
1309192	
08/10/2015	
	Turbidimeter Xin Rui WGZ-3B 1309192

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee Director

This report may not be reproduced except with prior written approval from Pilot Testing Limited.



WORK ORDER: HK1510387 **DATE OF ISSUE:** 14/10/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/10/2015	
Date of next Calibation:	08/01/2016	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.14	3.5	
10	9.23	-7.7	
40	39.1	-2.3	
100	105.0	5.0	
400	405.0	1.3	
1000	989	-1.1	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

This report may not be reproduced except with prior written approval from Pilot Testing Limited.



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510384

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 07/10/2015 DATE OF ISSUE: 14/10/2015

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/10/2015	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee Director

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WORK ORDER: HK1510384 **DATE OF ISSUE:** 14/10/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/10/2015	
Date of next Calibation:	08/01/2016	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.01	0.2	
10	10.1	1.0	
40	38.8	-3.0	
100	101.0	1.0	
400	395.0	-1.3	
1000	999.0	-0.1	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510427

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 2015-11-06 DATE OF ISSUE: 2015-11-13

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1408039	
Equipment No.:		
Date of Calibration:	06-Nov-15	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee Director

This report may not be reproduced except with prior written approval from Pilot Testing Limited.



WORK ORDER: HK1510427 **DATE OF ISSUE:** 2015-11-13

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1408039	
Equipment No.:		
Date of Calibration:	06-Nov-15	
Date of next Calibation:	06-Feb-16	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.12	3.0	
10	9.87	-1.3	
40	39.5	-1.3	
100	104.0	4.0	
400	402	0.5	
1000	994	-0.6	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. : HK1510392

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 2015-10-22

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : HK1510392
Test Item No. : HK1510392-01
Test Item Details

Test Item Description : Multifunctional Meter

Manufacturer : YSI
Model No. : Professional Plus

Serial No. : 14E100105

Performance Method : Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Gt No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date : 14-Oct-15
Test Item Calibration Date : 15-Oct-15

Test Period : 14/10/2015 - 22/10/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee

Issue Date: 2015-10-22



WORK ORDER: HK1510392 DATE OF ISSUE: 2015-10-22

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	15-Oct-15	
Date of next Calibation	15-Jan-16	

Parameters:

Temperature (Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.3	10.6	+0.3
19.7	19.4	-0.3
31.5	30.1	-1.4
T	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.06	4.02	-0.04
7.0	6.96	7.06	+0.10
10.0	9.91	10.04	+0.13
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.75	-1.09
0.2000	24.80	24.40	-1.61
0.5000	58.67	58.14	-0.90
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.62	8.71	+0.09
4.39	4.31	-0.08
2.05	2.11	+0.06
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. : HK1510386

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 19/10/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : HK1510386 Test Item No. : HK1510386-01

Test Item Details

Test Item Description : Multifunctional Meter

Manufacturer : YSI

 Model No.
 : Professional Plus

 Serial No.
 : 14M100277

Performance Method : Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date : 14-Oct-15
Test Item Calibration Date : 16-Oct-15

Test Period : 14/10/2015 - 19/10/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

(Director)

Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory : Issue Date: 19/10/2015

Mr. Péter Lee



WORK ORDER: HK1510386 DATE OF ISSUE: 19/10/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	16-Oct-15	
Date of next Calibation	16-Jan-16	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	10.9	+0.7
19.5	20.2	+0.7
30.4	30.5	+0.1
	Folerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3,91	3.98	+0.07
7.0	6.81	6.85	+0.04
10.0	9.73	9.79	+0.06
		±0.20	

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	7-1
0.1000	12.89	12.75	-1.12
0.2000	24.80	25.06	+1.05
0.5000	58.67	57.69	-1.67
0.0000	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L) -0.08	
8.71	8.63		
4.76	4.83	+0.07	
0.54	0.56	+0.02	
	Tolerance Limit	±0.20	

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No. : HK1510391

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 2015-10-22

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : Test Item No. : Test Item Details

: HK1510391 : HK1510391-01

Test Item Description

: Multifunctional Meter

Manufacturer

YSI

Model No. Serial No. Professional Plus 11F100420

Performance Method

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Gi No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date Test Item Calibration Date 14-Oct-15 15-Oct-15

Test Period

14/10/2015 - 22/10/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF, USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

 Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee (Director)

Issue Date:

2015-10-22



WORK ORDER: HK1510391 DATE OF ISSUE: 2015-10-22

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	11F100420	
Date of Calibration	15-Oct-15	
Date of next Calibation	15-Jan-16	

Parameters:

Temperature (Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.5	10.6	+0.1
19.5	20.1	+0.6
31.8	31.8	0.0
	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.90	4.09	+0.19
7.0	6.96	7.04	+0.08
10.0	9.87	9.9	+0.03
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

CI concentration (mol/L) Reference Reading (ms/cm		Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	100
0.1000	12.89	12.88	-0.08
0.2000	24.80	24.43	-1.49
0.5000	58.67	57.80	-1.48
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.05	7.92	-0.13
4.39	4.28	-0.11
2.26	2.22	-0.04
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

- End of Report -



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

15CA1203 04-01

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Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

B&K

B&K

Type/Model No .:

2236

4188

Serial/Equipment No.:

2288941

Adaptors used:

2100736

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No.

Date of receipt:

03-Dec-2015

Date of test:

04-Dec-2015

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator

B&K 4226 DS 360

2288444

19-Jun-2016

CIGISMEC

Signal generator

DS 360

33873 61227

16-Apr-2016 16-Apr-2016

CEPREI CEPRE

Ambient conditions

Temperature:

Relative humidity:

22 ± 1 °C 50 ± 10 %

Air pressure:

1010 ± 10 hPa

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of +20%
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

05-Dec-2015

Company Chop:

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

C Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

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1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
3	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date:

Fung Chi Yip 04-Dec-2015 End

Checked by:

Date:

Lam Tze Wai 05-Dec-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Soils & Materials Engineering Co., Ltd.

Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

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Tel: (852) 2873 6860

Fax: (852) 2555 7533

2

of

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.: Serial/Equipment No.: Rion Co., Ltd. NC-73 10465798

Adaptors used:

10

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

Request No.: Date of receipt:

28-May-2015

Date of test:

30-May-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C Relative humidity: 60 ± 10 % Air pressure: 1000 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

n/Feng Jun Qi

Huano Jian

Approved Signatory:

Date: 01-Jun-2015

Company Chos

SENGINEER SENGI

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

@ Soils & Materials Engineering Co., Ltd.

Form No. CARP156-1/Issue 1/Rev. D/01/03/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

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1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	94.06	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

3, **Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 966.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

Total Noise and Distortion 4,

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.5 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

End

Fung Chi Yip

Checked by:

Lam Tze Wai

Date:

30-May-2015

Date:

01-Jun-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No CARP156-2/Issue 1/Rev C/01/05/2005



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

	Tisch	Rootsmeter Orifice I.I		0005	Pa (mm) -	749.3
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.3930 0.9800 0.8790 0.8350 0.6900	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9883 0.9841 0.9820 0.9810 0.9757	0.7095 1.0042 1.1172 1.1749 1.4141	1.4090 1.9926 2.2278 2.3365 2.8179	0.9957 0.9915 0.9894 0.9884 0.9830	0.7148 1.0117 1.1256 1.1837 1.4247	0.8889 1.2570 1.4054 1.4740 1.7777
Qstd slo intercep coeffici y axis =	ent (r) =	2.00072 -0.01209 0.99995 	Qa slope intercept coefficie y axis =	t (b) =	1.25282 -0.00763 0.99995

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ $Qa = 1/m\{[SQRT H2O(Ta/Pa)] - b\}$



Lam Geotechincs Limited

Location :		CMA1b			Calbrati	on Date	: 30-Nov-15
Equipment no.		EL452			Calbrati	on Due Date	: 30-Jan-16
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER				
				Ambient Condition			
Temperature, T _a		295	i	Kelvin Pressure, F	a a	1	019 mmHg
			Orifice Tr	ansfer Standard Infor	mation		
Equipment No.		EL086		Slope, m _c 2.000	172	Intercept, bc	-0.01209
Last Calibration Date	30-Jun-15			(H)	(P _a / 101	13.3 x 298 /	$(T_a)^{1/2}$
Next Calibration Date		30-Jun-1	6	=	m _c x	$Q_{std} + b_c$	
				Calibration of TSP			
Calibration	Mar	nometer R	eading	Q _{std}	Contin	uous Flow	IC
Point	Н (inches of	water)	(m ³ / min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-axis
1	6.1	6.1	12.2	1.7656		58	58.4579
2	4.8	4.8	9.6	1.5669		52	52.4105
3	3.7	3.7	7.4	1.3764	44		44.3474
4	2.4	2.4	4.8	1.1097		36	36.2842
5	1.5	1.5	3.0	0.8786		24	24.1895
By Linear Regression of	Y on X						
	Slope, m	=	37.98		tercept, b =	-7.	7457
Correlation Co		=	0.99				
Calibration A	Accepted	=	Yes/	\0 **			
* if Correlation Coefficien	it < 0.990,	check and	l recalibration	n again.			
** Delete as appropriate.							
Remarks :							
		Kit Au			Checked	d by	: Derek Lo
Calibrated by Date	3	0-Nov-15			Date	•	: 30-Nov-15



Location :		CMA2a				Calbratio	on Date	:	30-Nov-15
Equipment no.		EL449				Calbratio	on Due Date	:	30-Jan-16
CALIBRATION OF CON	TINILIQUE	ELOW BE	CORDER						
CALIBRATION OF CON	TINUUUS	FLOW REC	JORDER						
	T			Ambient (
Temperature, T _a		295	j	Kelvin	Pressure, P	a	10	019	mmHg
			Orifice T	ransfer Sta	andard Infor	mation			
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc		-0.01209
Last Calibration Date		30-Jun-15			(H.	x P _a / 10	13.3 x 298 /	$T_a)^{1/2}$?
Next Calibration Date		30-Jun-1	6		=	m_c	$Q_{std} + b_c$		
				Calibratio	on of TSP				
Calibration	Manometer Reading		G	Q _{std} Continuo		uous Flow	IC		
Point	Н(inches of	water)	(m ³ / min.)		Recorder, W		(W(P _a /1	013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis
1	6.7	6.7	13.4	1.8	8501		62		62.4895
2	5.3	5.3	10.6	1.0	6462		55		55.4342
3	4.1	4.1	8.2	1.4486			48		48.3789
4	2.7	2.7	5.4	1.1	1767	38			38.3000
5	1.6	1.6	3.2	0.9	9072	30			30.2368
By Linear Regression of	Y on X								
	Slope, m	=	34.6	157	Inte	ercept, b =	-1.6	6936	
Correlation (Coefficient*	=	0.99	994	•				
Calibratio	n Accepted	=	Yes/	Ne**	•				
* if Correlation Coefficier	it < 0.990, c	heck and i	recalibration	again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Kit Au				Checked	l by	:	Derek Lo
Date :	3	0-Nov-15				Date		:	30-Nov-15



Lam Geotechincs Limited

Location :		CMA3a				Calbra	tion Date	:	30-Nov-15
Equipment no.		EL333				Calbra	tion Due Date	:	30-Jan-16
CALIBRATION OF CON	TINUOUS	FLOW RE	ECORDER						
				Ambient C	ondition				
Temperature, T _a		295		Kelvin	Pressure, P	a		1019	mmHg
			Orifice Tra	ansfer Star	ndard Inforn	nation			
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bo	;	-0.01209
Last Calibration Date	30-Jun-15				(H x	P _a / 10)13.3 x 298	/ T _a)	1/2
Next Calibration Date		30-Jun-1	6		=		$x Q_{std} + b_c$		
				Calibratior	of TSP				
Calibration	Mar	nometer Reading		Q	std	Conti	Continuous Flow		IC
Point	Н (і	inches of	water)	(m ³ /	min.)	Red	corder, W	(W(P _a /	013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-a	axis	(CFM)			Y-axis
1	5.8	5.8	11.6	1.7	218	56			56.4421
2	4.5	4.5	9.0	1.5	173		50		50.3947
3	3.5	3.5	7.0	1.3	389	44			44.3474
4	2.3	2.3	4.6	1.0	865	36			36.2842
5	1.5	1.5	3.0	8.0	786		28		28.2211
By Linear Regression of	Y on X								
	Slope, m	=	33.3	404	Inte	ercept, b	= -0).4922	
Correlation Co	oefficient*	=	0.99	90					
Calibration	Accepted	=	Yes/	\0 **					
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Kit Au				Check	ed by	:	Derek Lo
Date	3	0-Nov-15				Date		:	30-Nov-15



Location

Calibration Data for High Volume Sampler (TSP Sampler)

Calbration Date

Equipment no.		EL390				Calbr	ation Due Date	: <u> </u>	30-Jan-16
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient C	ondition				
Temperature, T _a		295		Kelvin	Pressure, P	a		1019	mmHg
			Orifice Tr	ansfer Sta	ndard Inforr	nation			
Equipment No.		EL086		Slope, m _c	2.000	72	Intercept, bc		-0.01209
Last Calibration Date		30-Jun-1	5		(Hx	P _a / 1	013.3 x 298 /	'T _a) 1	/2
Next Calibration Date		30-Jun-1	6		=	m_c	$x Q_{std} + b_c$		
				Calibratio	n of TSP				
Calibration	Mar	nometer Re	eading	C	std	Cont	inuous Flow		IC
Point	Н (inches of v	water)	(m ³ / min.)		Recorder, W		(W(P _a /1	013.3x298/T _a) ^{1/2} /35.3
	(up)	(down)	(difference)	X-	axis		(CFM)		Y-axis
1	6.4	6.4	12.8	1.8	3084		58		58.4579
2	5.1	5.1	10.2	1.6	6149		52		52.4105
3	3.9	3.9	7.8	1.4	1130		46		46.3632
4	2.6	2.6	5.2	1.1	1548 34		34		34.2684
5	1.6	1.6	3.2	0.0	9072		24		24.1895
By Linear Regression of	Y on X								
	Slope, m	=	38.5	259	Inte	ercept, b	= -10	0.0149	
Correlation Co	pefficient*	=	0.99	962					
Calibration	Accepted	=	Yes/ł	No**					
<u> </u>									
* if Correlation Coefficier	nt < 0.990	, check and	I recalibratio	n again.					
** Delete ee ee ee ee ee									
** Delete as appropriate.									
Remarks :									
Calibrated by		Kit Au					ked by	:	Derek Lo
Date :	3	0-Nov-15				Date		:	30-Nov-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5b	Calbration Date	:	30-Nov-15
Equipment no.	:	EL222	Calbration Due Date	: _	30-Jan-16

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a	295 Kelvin	Pressure, P _a	1019	mmHg					

Orifice Transfer Standard Information										
Equipment No.	EL086	Slope, m _c	2.00072	Intercept, bc	-0.01209					
Last Calibration Date	30-Jun-15	$(Hx P_a / 1013.3 x 298 / T_a)^{1/2}$								
Next Calibration Date	30-Jun-16		= <i>m</i> ₀	$_{c} \times Q_{std} + b_{c}$						

	Calibration of TSP										
Calibration	Manometer Reading		Q _{std}	Continuous Flow	IC						
Point	H (inches of water)		(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)						
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis					
1	5.2	5.2	10.4	1.6306	62	62.4895					
2	4.3	4.3	8.6	1.4834	58	58.4579					
3	3.3	3.3	6.6	1.3002	53	53.4184					
4	2.0	2.0	4.0	1.0136	46	46.3632					
5	1.3	1.3	2.6	0.8183	38	38.3000					

By Linear Regression of Y on X

Slope, m = 28.8602 Intercept, b = 15.7526

Correlation Coefficient* = 0.9958

Calibration Accepted = Yes/Ne**

** Delete as	appropriate.
--------------	--------------

Remarks :				

 Calibrated by
 Kit Au
 Checked by
 : Derek Lo

 Date
 30-Nov-15
 Date
 : 30-Nov-15

^{*} if Correlation Coefficient < 0.990, check and recalibration again.



Location :	CMA6a				Calbrati	on Date	:	30-Nov-15		
Equipment no.		EL448			Calbration Due Da			30-Jan-16		
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER							
				Ambient Condition						
Temperature, T _a		295		Kelvin Pressure, F	a	1	1019 mmHg			
			Orifice Tr	ansfer Standard Infor	mation					
Equipment No.		EL086		Slope, m _c 2.000	72	Intercept, bc	op	-0.01209		
Last Calibration Date	st Calibration Date 30-Jun-15				$(HxP_a/1013.3x298/T_a)^{1/2}$					
Next Calibration Date		30-Jun-1	6	$= m_c \times Q_{std} + b_c$						
				Calibration of TSP						
Calibration	Mar	nometer Re	eading	Q _{std}	Continuous Flow		IC			
Point	Н (inches of v	water)	(m ³ / min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31			
	(up)	(down)	(difference)	X-axis	(0	CFM)		Y-axis		
1	6.6	6.6	13.2	1.8363		60		60.4737		
2	5.3	5.3	10.6	1.6462		54		54.4263		
3	4.5	4.5	9.0	1.5173	50		50.3947			
4	2.6	2.6	5.2	1.1548		40		40.3158		
5	1.5	1.5	3.0	0.8786	30		30.2368			
By Linear Regression of	Y on X									
Slope, m		=	30.9		Intercept, b = 		5936			
By Linear Regression of Y on X Slope, Correlation Coefficien Calibration Accepte		=	0.99							
Calibration	Accepted	=	Yes/f	\0 **						
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	n again.						
** Delete as appropriate.										
Remarks :										
		Kit Au			Checke	d by		Derek Lo		
Calibrated by	3	0-Nov-15			Date	y	· —	30-Nov-15		
Date	_	-						-		

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2011/07

Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

Environmental Monitoring Schedule December 2015

Sunday	Monday		Tuesday	Wednesday	,	Thursday		Friday	Saturday	
29-1	lov	30-Nov	1-D	ec	2-Dec		3-Dec	4-D	ec	5-Dec
						24hr TSP				
						(CMA5b)				
				24hr TSP		1hr TSP				
				-						
			Noise (daytime)							
			(M1a, M2b, M3a, M4b, M5b, M	16)						
	Impact WQM		(MTG, MED, MOG, MTD, MOD, M	Impact WQM				Impact WQM		
		0.55			4.00				0.7	
	Mid-ebb	2:57		Mid-ebb	4:23				07	
6-0	Mid-flood	10:10 7-Dec	8-D	Mid-flood	16:00 9-Dec		0-Dec	Mid-flood 13 11-D	50	12-Dec
b-L	ec	7-Dec	8-D	ec .	9-Dec	1	u-Dec	11-0	ec	12-Dec
			24hr TSP	1hr TSP						
			Noise (daytime)					Noise (daytime)		
			(M1a)					(M2b, M3a, M4b, M5b, M6)		
	Impact WQM		,	Impact WQM				Impact WQM	Impact WQM	
	Mid-ebb	9:36		Mid-flood	16:31					
	Mid-flood	15:38		Mid-ebb	23:23			Mid-flood 17	37 Mid-ebb	0:26
13-		14-Dec			16-Dec		17-Dec	18-0		19-Dec
	,00	11 200	1		10 200		500			10 000
	24hr TSP		1hr TSP					24hr TSP	1hr TSP	
	Noise (daytime)		Noise (daytime)	Noise (daytime)						
	(M2b, M3a, M4b)		(M1a)	(M5b, M6)						
	Impact WQM			Impact WQM				Impact WQM		
	Mid-ebb	1:40		Mid-ebb	3:03			Mid-ebb 4	39	
	Mid-flood	8:52		Mid-flood	10:29			Mid-flood 12		
20-	Dec	21-Dec		ес	23-Dec		24-Dec	25-E		26-Dec
	1hr TSP			24hr TSP		1hr TSP				
	Noise (daytime)		Noise (daytime)	Noise (daytime)						
			L. 140 . 1441 . 1451 . 1401	(M1a)		i e		l	1	
	(M2b)		(M3a, M4b, M5b, M6)	(IVI Ia)						
	(M2b) Impact WQM		(M3a, M4b, M5b, M6)	Impact WQM					Impact WQM	
		8:26			10:32				Impact WQM Mid-ebb	0:36

Tentative Environmental Monitoring Schedule January 2016

						nuary 2	• . •				
Sunday	Monday		Tuesday		Wednesda	y	Thursday	Friday		Saturday	
27-Dec		28-Dec		29-Dec		30-Dec	31-Dec		1-Jan		2-Jar
			24hr TSP		1hr TSP						
			2 10.								
	Noise (daytime)		Noise (daytime)								
	Impact WQM				Impact WQM					Impact WQM	
	Mid-ebb	1:57			Mid-ebb	3:10				Mid-ebb	4:17
	Mid-flood	9:00			Mid-flood	10:22				Mid-flood	12:36
3-Jan		4-Jan		5-Jan		6-Jan	7-Jan		8-Jan		9-Jar
	24hr TSP		1hr TSP							24hr TSP	
	Noise (daytime)		Noise (daytime)								
	,,		,,								
	Impact WQM										
	Mid-flood	13:59			Mid-flood	15:09		Mid-flood	16:31		
	Mid-ebb	21:36			Mid-ebb	22:31		Mid-ebb	23:35		
10-Jan	IVIIG-600	11-Jan		12-Jan	Wild-GDD	13-Jan	14-Jan	Wild-CDD	15-Jan		16-Jar
10-3411		I I-Jaii		12-341		13-Jaii	14-341		15-Jail		10-341
								_			
	1hr TSP							24hr TSP		1hr TSP	
	Noise (daytime)		Noise (daytime)								
	Impact WQM				Impact WQM			Impact WQM			
	Mid-ebb	0:51			Mid-flood	9:13		Mid-flood	10:43		
	Mid-flood	7:54			Mid-ebb	14:55		Mid-ebb	16:40		
17-Jan		18-Jan		19-Jan		20-Jan	21-Jan		22-Jan		23-Jar
	1hr TSP						24hr TSP	1hr TSP			
	Noise (daytime)		Noise (daytime)								
	Impact WQM				Impact WQM			Impact WQM			
	Mid-flood	13:12			Mid-flood	15:04		Mid-flood	16:45		
	Mid-ebb	20:15			Mid-ebb	22:17		Mid-ebb	23:36		
24-Jan		25-Jan		26-Jan							
21001											
	L		L								
	Noise (daytime)		Noise (daytime)								
			I .		I		i e	l .		I .	
	Impact WQM										
	Impact WQM Mid-ebb Mid-flood	1:03 7:55									

Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level	
Date	Time	Weather	Leq L10 L90		Leq	Leq	Leq		
			800 045 785			Unit: dE	(A), (30-min)		
01/12/15	10:20	Cloudy	89.0 94.5 78.5		72	89	75		
08/12/15	16:18	Cloudy			72	83	75		
15/12/15	13:27	Fine	84.0 85.5 78.0		72	84	75		
23/12/15	13:42	Fine	84.5 85.5 83.0		72	84	75		

Location: M2b - Noon-day gun area

		Measure	ement Noi	se Level		Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dl	B(A), (30-min)	
01/12/15	13:00	Cloudy	69.6 70.5 67.5			68	65	75
11/12/15	14:05	Fine	68.8 70.0 66.0		68	63	75	
14/12/15	10:17	Fine	69.3 70.0 67.0		68	64	75	
21/12/15	10:20	Fine	68.5	68.5 70.0 66.5		68	61	75

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq L10 L90			Leq	Leq	Leq		
						Unit: dE	B(A), (30-min)			
01/12/15	13:40	Cloudy	67.5 68.6 65.5			69	68	75		
11/12/15	15:05	Fine	65.8 67.5 62.0		69	66	75			
14/12/15	13:45	Fine	65.8 67.0 64.0		64.0	69	66	75		
22/12/15	8:00	Fine	67.2 68.0 65.5		69	67	75			

Location: M4b - Victoria Centre

			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90		L90	Leq	Leq	Leq
						Unit: d	B(A), (30min)	•
01/12/15	14:15	Cloudy	67.8 69.5 65.0		67	58	75	
11/12/15	15:46	Fine	71.6 75.0 64		64.5	67	70	75
14/12/15	14:26	Fine	70.6 72.5 66.0		67	68	75	
22/12/15	8:40	Fine	68.5 70.0 67.0		67	62	75	

Location: M5b - City Garden

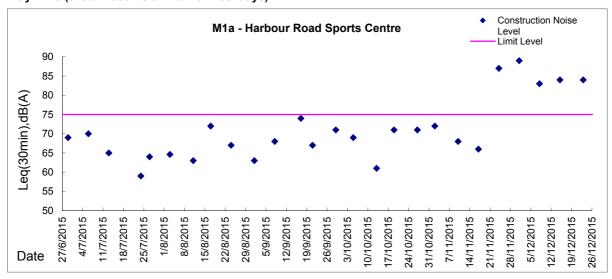
				Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
L				69.1 70.5 67.5			Unit: d	B(A), (30min)	
Ī	01/12/15	15:00	Cloudy				68	63	75
	11/12/15	9:30	Fine	68.8 71.0 63.5		68	61	75	
ſ	16/12/15	9:00	Fine	69.5 71.0 67.5		68	64	75	
	22/12/15	9:34	Fine	64.7 66.5 62.5		68	65	75	

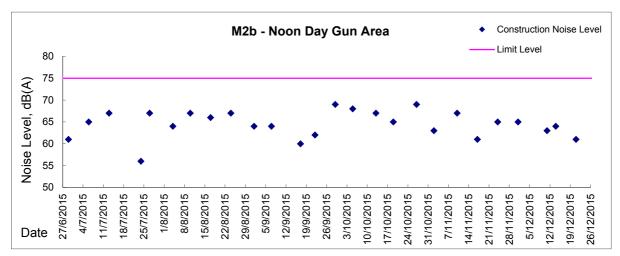
Location: M6 - HK Baptist Church Henrietta Secondary School

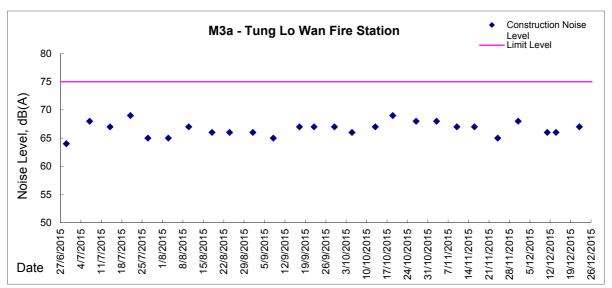
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90			Leq	Leq	Leq
						Unit: dE	3(A), (30-min)	
01/12/15	15:37	Cloudy	70.9 72.0 68.0			71	57	70
11/12/15	10:05	Fine	68.4 69.5 66.5		71	68	65	
16/12/15	9:40	Fine	68.5 69.5 67.0		71	69	65	
22/12/15	10:16	Fine	69.1 70.0 67.0		71	69	70	



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

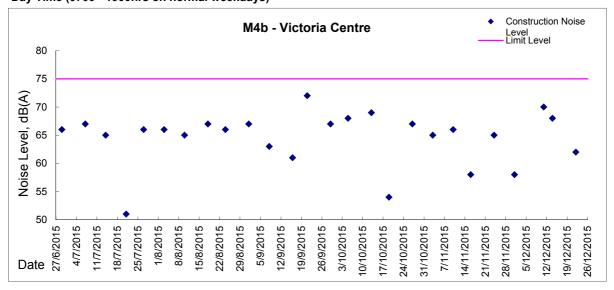


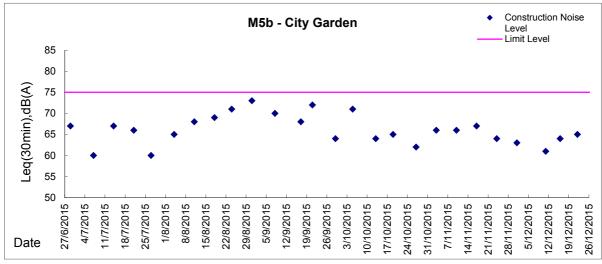


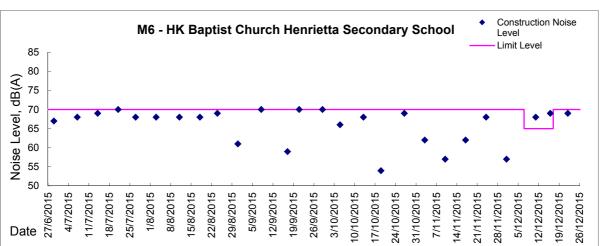




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations, and odour Patrol Results



Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring Action Level (μ g/m3) - 176.7 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-15	8:00	Cloudy	013881	2.8101	3.1082	7330.07	7354.07	24.00	1.27	1.28	1.27	1834	162.6
8-Dec-15	8:00	Cloudy	013987	2.8233	3.0409	7357.08	7381.08	24.00	1.28	1.28	1.28	1844	118.0
14-Dec-15	8:00	Cloudy	012443	2.8252	3.0146	7384.10	7408.10	24.00	1.28	1.28	1.28	1841	102.9
18-Dec-15	8:00	Fine	014176	2.8113	3.0920	7411.11	7435.11	24.00	1.29	1.29	1.29	1856	151.2
23-Dec-15	8:00	Cloudy	014057	2.8690	3.1845	7438.11	7462.11	24.00	1.27	1.27	1.27	1834	172.0

Report on 1-hour TSP monitoring Action Level (μ g/m3) - 320.1 Limit Level (μ g/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	β μg/m³
3-Dec-15	8:03	Cloudy	013998	2.8346	2.8431	7354.07	7355.07	1.00	1.28	1.28	1.28	77	111.1
3-Dec-15	9:07	Cloudy	013993	2.8415	2.8511	7355.07	7356.07	1.00	1.28	1.28	1.28	77	125.4
3-Dec-15	10:25	Cloudy	013990	2.8160	2.8259	7356.07	7357.07	1.00	1.28	1.28	1.28	77	129.4
9-Dec-15	8:03	Rainy	013982	2.8309	2.8400	7381.08	7382.08	1.00	1.28	1.28	1.28	77	118.5
9-Dec-15	9:35	Rainy	013978	2.8396	2.8488	7382.09	7383.09	1.00	1.28	1.28	1.28	77	119.8
9-Dec-15	11:00	Rainy	013975	2.8385	2.8477	7383.10	7384.10	1.00	1.28	1.28	1.28	77	119.8
15-Dec-15	8:06	Cloudy	013803	2.7996	2.8073	7408.10	7409.10	1.00	1.28	1.28	1.28	77	100.2
15-Dec-15	10:00	Cloudy	013800	2.7971	2.8062	7409.11	7410.11	1.00	1.28	1.28	1.28	77	118.4
15-Dec-15	13:00	Cloudy	014181	2.8347	2.8450	7410.11	7411.11	1.00	1.28	1.28	1.28	77	134.1
19-Dec-15	8:30	Fine	014172	2.8052	2.8163	7435.11	7436.11	1.00	1.29	1.29	1.29	77	143.7
19-Dec-15	9:40	Fine	014169	2.8181	2.8292	7436.11	7437.11	1.00	1.29	1.29	1.29	77	143.7
19-Dec-15	13:00	Fine	013623	2.8043	2.8151	7437.11	7438.11	1.00	1.29	1.29	1.29	77	139.8
24-Dec-15	8:05	Cloudy	014273	2.8968	2.9090	7462.11	7463.11	1.00	1.27	1.27	1.27	76	159.8
24-Dec-15	9:18	Cloudy	014104	2.8693	2.8808	7463.11	7464.11	1.00	1.27	1.27	1.27	76	150.6
24-Dec-15	10:29	Cloudy	014101	2.8922	2.9045	7464.11	7465.11	1.00	1.27	1.27	1.27	76	161.1



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level (μ g/m3) - 169.5 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-15	8:00	Cloudy	014002	2.8340	3.0494	16980.01	17004.01	24.00	1.22	1.22	1.22	1760	122.4
8-Dec-15	8:00	Cloudy	013838	2.8186	2.9782	17007.01	17031.01	24.00	1.23	1.23	1.23	1772	90.1
14-Dec-15	8:00	Cloudy	012441	2.8359	2.9214	17034.02	17058.02	24.00	1.11	1.12	1.12	1607	53.2
18-Dec-15	8:00	Fine	014208	2.8128	2.9332	17061.02	17085.02	24.00	1.13	1.12	1.13	1622	74.2
23-Dec-15	8:00	Cloudy	014217	2.8992	3.0877	17088.02	17112.02	24.00	1.22	1.22	1.22	1761	107.0

Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m ³
3-Dec-15	8:05	Cloudy	014003	2.8302	2.8358	17004.01	17005.01	1.00	1.22	1.22	1.22	73	76.2
3-Dec-15	9:19	Cloudy	013889	2.7999	2.8074	17005.01	17006.01	1.00	1.17	1.17	1.17	70	106.9
3-Dec-15	10:25	Cloudy	013842	2.8303	2.8402	17006.01	17007.01	1.00	1.22	1.22	1.22	73	134.7
9-Dec-15	8:05	Rainy	013983	2.8290	2.8356	17031.01	17032.01	1.00	1.23	1.23	1.23	74	89.5
9-Dec-15	9:24	Rainy	013828	2.8026	2.8099	17032.01	17033.01	1.00	1.23	1.23	1.23	74	99.0
9-Dec-15	10:53	Rainy	013832	2.8072	2.8148	17033.01	17034.01	1.00	1.23	1.23	1.23	74	103.0
15-Dec-15	8:30	Cloudy	013802	2.7994	2.8051	17058.02	17059.02	1.00	1.12	1.12	1.12	67	85.0
15-Dec-15	10:11	Cloudy	014199	2.8242	2.8304	17059.02	17060.02	1.00	1.12	1.12	1.12	67	92.4
15-Dec-15	13:00	Cloudy	014203	2.8285	2.8351	17060.02	17061.02	1.00	1.12	1.12	1.12	67	98.4
19-Dec-15	8:26	Fine	014183	2.8153	2.8244	17085.02	17086.02	1.00	1.24	1.24	1.24	74	122.5
19-Dec-15	9:37	Fine	014118	2.7981	2.8079	17086.02	17087.02	1.00	1.24	1.24	1.24	74	132.0
19-Dec-15	10:43	Fine	014114	2.8830	2.8937	17087.02	17088.02	1.00	1.24	1.24	1.24	74	144.1
24-Dec-15	8:05	Cloudy	014274	2.8653	2.8770	17112.02	17113.02	1.00	1.22	1.22	1.22	73	159.6
24-Dec-15	9:10	Cloudy	014269	2.8634	2.8729	17113.02	17114.02	1.00	1.22	1.22	1.22	73	129.6
24-Dec-15	10:15	Cloudy	014265	2.8732	2.8783	17114.02	17115.02	1.00	1.22	1.22	1.22	73	69.6



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (μ g/m3) - 171 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-15	8:00	Cloudy	013877	2.8016	2.9747	4472.13	4496.13	24.00	1.26	1.27	1.26	1820	95.1
8-Dec-15	8:00	Cloudy	013986	2.8330	2.9714	4499.14	4523.14	24.00	1.27	1.27	1.27	1831	75.6
14-Dec-15	8:00	Cloudy	012442	2.8321	2.9429	4526.15	4550.15	24.00	1.22	1.22	1.22	1755	63.1
18-Dec-15	8:00	Fine	014175	2.8176	2.9965	4553.15	4577.15	24.00	1.33	1.33	1.33	1915	93.4
23-Dec-15	8:00	Cloudy	014058	2.8752	3.0630	4580.15	4604.15	24.00	1.32	1.31	1.31	1894	99.2

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
3-Dec-15	8:09	Cloudy	013995	2.8195	2.8267	4496.13	4497.13	1.00	1.18	1.18	1.18	71	101.9
3-Dec-15	9:35	Cloudy	013992	2.8306	2.8392	4497.13	4498.13	1.00	1.18	1.18	1.18	71	121.7
3-Dec-15	10:45	Cloudy	013989	2.8455	2.8524	4498.13	4499.13	1.00	1.18	1.18	1.18	71	97.7
9-Dec-15	8:30	Rainy	013980	2.8189	2.8242	4523.14	4524.14	1.00	1.18	1.18	1.18	71	74.7
9-Dec-15	10:00	Rainy	013977	2.8401	2.8500	4524.15	4525.15	1.00	1.18	1.18	1.18	71	139.6
9-Dec-15	13:00	Rainy	013974	2.8305	2.8379	4525.15	4526.15	1.00	1.18	1.18	1.18	71	104.3
15-Dec-15	10:49	Cloudy	014201	2.8330	2.8392	4550.15	4551.15	1.00	1.24	1.24	1.24	74	83.2
15-Dec-15	13:00	Cloudy	014180	2.8227	2.8296	4551.15	4552.15	1.00	1.24	1.24	1.24	74	92.6
15-Dec-15	14:18	Cloudy	014177	2.8244	2.8311	4552.15	4553.15	1.00	1.12	1.12	1.12	67	99.3
19-Dec-15	8:50	Fine	014171	2.7970	2.8056	4577.15	4578.15	1.00	1.25	1.25	1.25	75	114.8
19-Dec-15	10:00	Fine	014168	2.8192	2.8272	4578.15	4579.15	1.00	1.25	1.25	1.25	75	106.7
19-Dec-15	13:00	Fine	013622	2.8101	2.8213	4579.15	4580.15	1.00	1.25	1.25	1.25	75	149.4
24-Dec-15	8:45	Cloudy	014271	2.8895	2.9000	4604.15	4605.15	1.00	1.17	1.17	1.17	70	149.0
24-Dec-15	9:48	Cloudy	014103	2.8735	2.8816	4605.15	4606.15	1.00	1.23	1.23	1.23	74	109.5
24-Dec-15	10:52	Cloudy	014100	2.8751	2.8880	4606.15	4607.15	1.00	1.23	1.23	1.23	74	174.4



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171.2 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-15	8:00	Cloudy	013882	2.8057	3.0262	21256.97	21280.97	24.00	1.31	1.32	1.31	1893	116.5
8-Dec-15	8:00	Cloudy	013837	2.7988	2.9759	21283.98	21307.98	24.00	1.32	1.32	1.32	1903	93.0
14-Dec-15	8:00	Cloudy	012440	2.8313	2.9857	21310.99	21334.99	24.00	1.32	1.32	1.32	1900	81.3
18-Dec-15	8:00	Fine	013849	2.8358	3.0596	21338.00	21362.00	24.00	1.33	1.33	1.33	1915	116.8
23-Dec-15	8:00	Cloudy	014218	2.8836	3.1426	21365.00	21389.00	24.00	1.32	1.31	1.31	1894	136.8

Report on 1-hour TSP monitoring
Action Level (µg/m3) - 312.5
Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
3-Dec-15	8:05	Cloudy	013997	2.8169	2.8255	21280.98	21281.98	1.00	1.32	1.32	1.32	79	108.9
3-Dec-15	9:41	Cloudy	013845	2.8296	2.8390	21281.98	21282.98	1.00	1.32	1.32	1.32	79	119.0
3-Dec-15	10:44	Cloudy	013841	2.8275	2.8363	21282.98	21283.98	1.00	1.32	1.32	1.32	79	111.4
9-Dec-15	8:30	Rainy	013981	2.8083	2.8182	21307.99	21308.99	1.00	1.32	1.32	1.32	79	124.9
9-Dec-15	10:00	Rainy	013829	2.8063	2.8161	21308.99	21309.99	1.00	1.32	1.32	1.32	79	123.7
9-Dec-15	13:00	Rainy	013833	2.8016	2.8102	21309.99	21310.99	1.00	1.32	1.32	1.32	79	108.5
15-Dec-15	10:38	Cloudy	014200	2.8152	2.8225	21334.99	21335.99	1.00	1.32	1.32	1.32	79	92.1
15-Dec-15	13:00	Cloudy	014204	2.8274	2.8366	21335.99	21336.99	1.00	1.32	1.32	1.32	79	116.0
15-Dec-15	14:04	Cloudy	014206	2.8314	2.8407	21337.00	21338.00	1.00	1.32	1.32	1.32	79	117.3
19-Dec-15	8:49	Fine	013821	2.8029	2.8182	21362.00	21363.00	1.00	1.33	1.33	1.33	80	192.0
19-Dec-15	9:57	Fine	014117	2.8062	2.8175	21363.00	21364.00	1.00	1.33	1.33	1.33	80	141.8
19-Dec-15	13:00	Fine	014113	2.8978	2.9090	21364.00	21365.00	1.00	1.33	1.33	1.33	80	140.6
24-Dec-15	8:30	Cloudy	014272	2.8818	2.8919	21389.00	21390.00	1.00	1.31	1.31	1.31	79	128.1
24-Dec-15	9:33	Cloudy	014268	2.8741	2.8856	21390.00	21391.00	1.00	1.31	1.31	1.31	79	145.9
24-Dec-15	10:45	Cloudy	014264	2.8794	2.8901	21391.00	21392.00	1.00	1.31	1.31	1.31	79	135.7



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring Action Level (μ g/m3) - 181 Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	t, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-Dec-15	11:58	Cloudy	013836	2.8100	2.9518	5789.99	5813.99	24.00	0.73	0.73	0.73	1054	134.5
8-Dec-15	8:00	Cloudy	013996	2.8359	2.9101	5813.99	5837.99	24.00	0.74	0.74	0.74	1061	69.9
14-Dec-15	8:00	Cloudy	013973	2.8487	2.9772	5841.02	5865.02	24.00	0.73	0.74	0.73	1057	121.6
18-Dec-15	8:00	Fine	014209	2.8304	3.0206	5868.03	5892.03	24.00	0.75	0.74	0.75	1075	176.9
23-Dec-15	8:00	Cloudy	012444	2.8262	3.0139	5895.03	5919.03	24.00	0.73	0.73	0.73	1049	178.9

Remarks: Due to interruption of electricity supply, the 24hr TSP was rescheduled from 2 December 2015 to 3 December 2015.

Report on 1-hour TSP monitoring Action Level (µg/m3) - 332 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-Dec-15	8:25	Cloudy	013994	2.8308	2.8381	5786.98	5787.98	1.00	0.73	0.73	0.73	44	166.6
3-Dec-15	9:50	Cloudy	013844	2.8170	2.8258	5787.98	5788.98	1.00	0.73	0.73	0.73	44	200.8
3-Dec-15	10:55	Cloudy	013840	2.8341	2.8451	5788.98	5789.98	1.00	0.73	0.73	0.73	44	251.0
9-Dec-15	8:45	Rainy	013979	2.8290	2.8374	5837.99	5838.99	1.00	0.74	0.74	0.74	44	190.4
9-Dec-15	10:19	Rainy	013830	2.8173	2.8247	5839.02	5840.02	1.00	0.74	0.74	0.74	44	167.8
9-Dec-15	13:15	Rainy	013834	2.7957	2.8050	5840.02	5841.02	1.00	0.74	0.74	0.74	44	210.8
15-Dec-15	8:45	Cloudy	013801	2.7988	2.8058	5865.02	5866.02	1.00	0.74	0.74	0.74	44	158.4
15-Dec-15	10:55	Cloudy	014182	2.8190	2.8265	5866.03	5867.03	1.00	0.74	0.74	0.74	44	169.7
15-Dec-15	13:00	Cloudy	014205	2.8143	2.8210	5867.03	5868.03	1.00	0.74	0.74	0.74	44	151.6
19-Dec-15	9:05	Fine	013822	2.7932	2.8016	5892.03	5893.03	1.00	0.74	0.74	0.74	45	188.1
19-Dec-15	10:14	Fine	014116	2.8404	2.8491	5893.03	5894.03	1.00	0.74	0.74	0.74	45	194.8
19-Dec-15	13:00	Fine	014112	2.9012	2.9100	5894.03	5895.03	1.00	0.74	0.74	0.74	45	197.1
24-Dec-15	8:50	Cloudy	014270	2.8795	2.8888	5919.03	5920.03	1.00	0.73	0.73	0.73	44	213.2
24-Dec-15	9:53	Cloudy	014267	2.8836	2.8951	5920.03	5921.03	1.00	0.79	0.79	0.79	48	241.4
24-Dec-15	10:56	Cloudy	014263	2.8928	2.9042	5921.03	5922.03	1.00	0.79	0.79	0.79	48	239.3



Location: CMA6a - WD2 PRE Office

 $\begin{array}{ccc} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level -} & 187.3 & \mu\text{g/m3} \\ \text{Limit Level -} & 260 & \mu\text{g/m3} \end{array}$

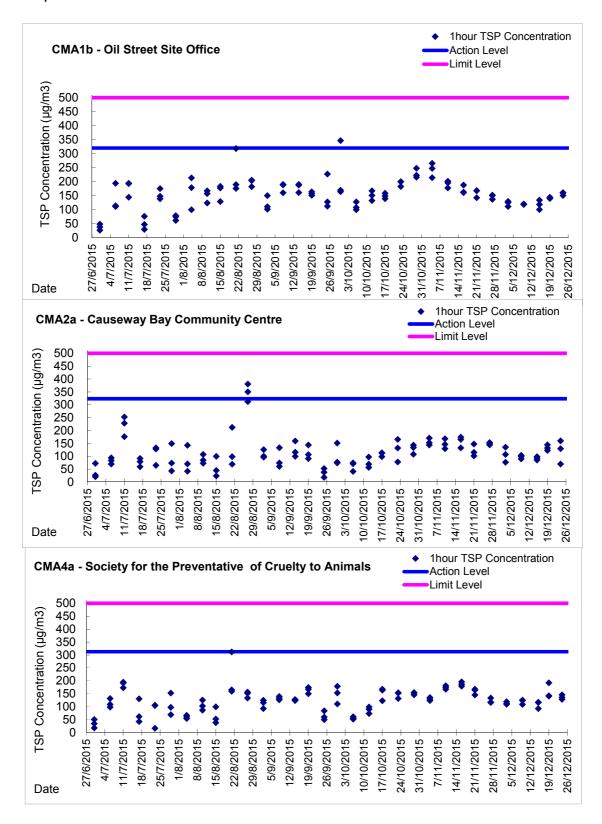
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-15	8:00	Cloudy	014000	2.8208	3.0472	20837.28	20861.28	24.00	1.19	1.20	1.20	1721	131.5
8-Dec-15	8:00	Cloudy	013985	2.8416	3.0481	20864.29	20888.29	24.00	1.21	1.20	1.20	1735	119.0
14-Dec-15	8:00	Cloudy	013806	2.8040	3.0050	20891.29	20915.29	24.00	1.20	1.20	1.20	1730	116.2
18-Dec-15	8:00	Fine	014174	2.8263	3.0685	20918.29	20942.29	24.00	1.22	1.21	1.21	1749	138.5
23-Dec-15	8:00	Cloudy	014109	2.8854	3.1455	20945.29	20969.29	24.00	1.20	1.19	1.20	1722	151.0

Report on 1-hour TSP monitoring Action Level - 300.1 μ g/m³ Limit Level - 500 μ g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-Dec-15	8:33	Cloudy	013887	2.8103	2.8216	20861.28	20862.28	1.00	1.20	1.20	1.20	72	157.2
3-Dec-15	9:55	Cloudy	013991	2.8184	2.8294	20862.29	20863.29	1.00	1.20	1.20	1.20	72	153.0
3-Dec-15	11:00	Cloudy	013988	2.8348	2.8453	20863.29	20864.29	1.00	1.20	1.20	1.20	72	146.1
9-Dec-15	8:42	Rainy	013826	2.8063	2.8142	20888.29	20889.29	1.00	1.20	1.20	1.20	72	109.4
9-Dec-15	10:30	Rainy	013976	2.8370	2.8432	20889.29	20890.29	1.00	1.20	1.20	1.20	72	85.9
9-Dec-15	13:00	Rainy	013819	2.8167	2.8240	20890.29	20891.29	1.00	1.20	1.20	1.20	72	101.1
15-Dec-15	9:02	Cloudy	014196	2.8235	2.8340	20915.29	20916.29	1.00	1.20	1.20	1.20	72	145.3
15-Dec-15	10:40	Cloudy	013798	2.8074	2.8169	20916.29	20917.29	1.00	1.20	1.20	1.20	72	131.5
15-Dec-15	13:00	Cloudy	014179	2.8172	2.8273	20917.29	20918.29	1.00	1.20	1.20	1.20	72	139.8
19-Dec-15	9:15	Fine	014170	2.8072	2.8172	20942.29	20943.29	1.00	1.21	1.21	1.21	73	137.5
19-Dec-15	10:20	Fine	013624	2.7756	2.7883	20943.29	20944.29	1.00	1.21	1.21	1.21	73	174.6
19-Dec-15	13:00	Fine	013621	2.8147	2.8269	20944.29	20945.29	1.00	1.21	1.21	1.21	73	167.7
24-Dec-15	8:39	Cloudy	014106	2.8984	2.9112	20969.29	20970.29	1.00	1.19	1.19	1.19	72	178.6
24-Dec-15	9:50	Cloudy	014102	2.8909	2.8993	20970.29	20971.29	1.00	1.19	1.19	1.19	72	117.2
24-Dec-15	13:00	Cloudy	014099	2.8767	2.8855	20971.29	20972.29	1.00	1.19	1.19	1.19	72	122.8

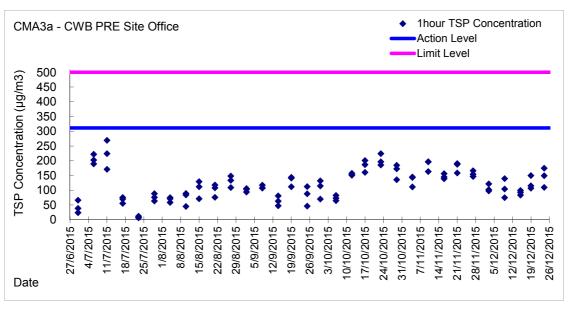


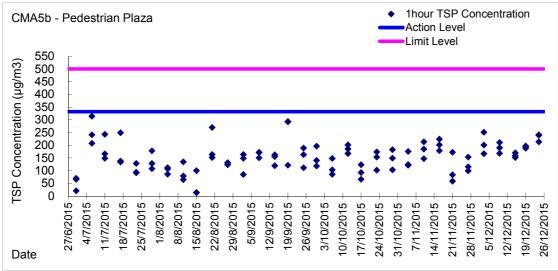
Graphic Presentation of 1 hour TSP Result

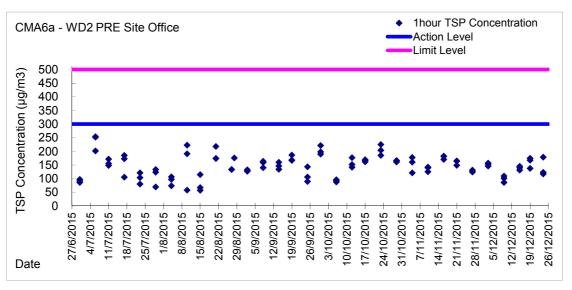




Graphic Presentation of 1 hour TSP Result

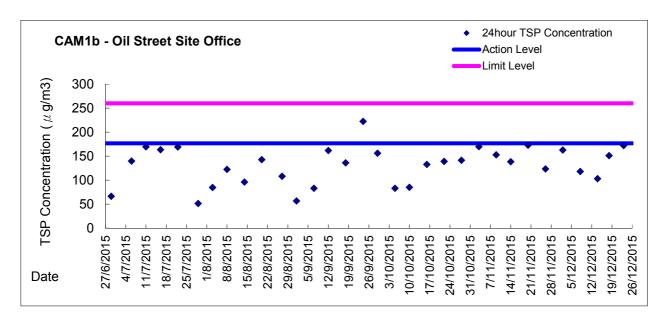


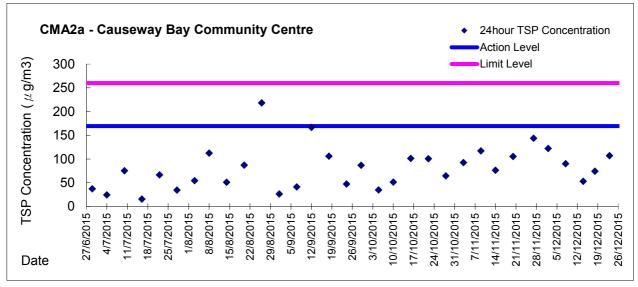


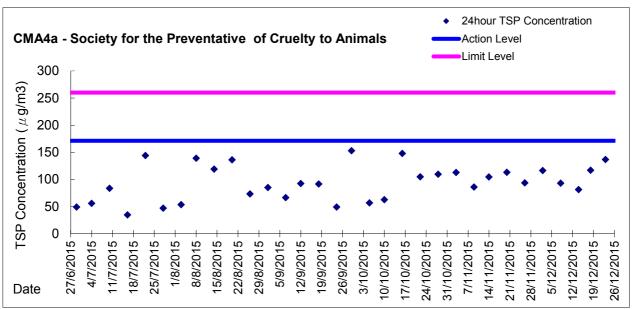




Graphic Presentation of 24 hour TSP Result

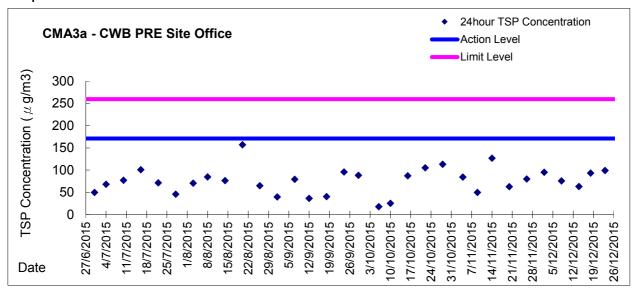


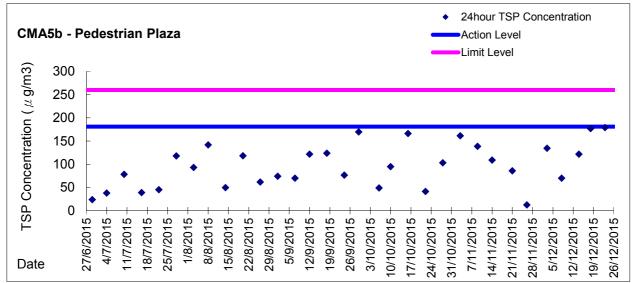


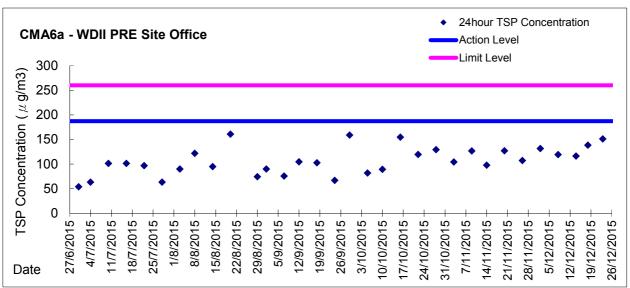




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality and Additional Dissolved Oxygen Monitoring Results and Graphical Presentations



Water Monitoring Result at C7 - Windsor House Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	perature		рН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
54.0		Condition	r	n	Va	lue	Average	Va	ılue	Average	Va	lue	Average	Va	alue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	12:05	Fine	Middle	-	24.40	24.40	24.55	8.32	8.32	8.33	31.65	31.65	31.79	84.8	87.9	87.1	5.88	6.09	6.03	6.10	6.00	6.00	3	3.50
	12:07		Middle	-	24.70	24.70		8.33	8.33		31.92	31.92		87.9	87.6		6.09	6.07		5.94	5.94		4	
2/12/2015	16:22	Fine	Middle	-	24.60	24.60	24.60	8.31	8.31	8.32	32.08	32.08	32.08	87.1	88.3	87.5	6.04	6.12	6.07	4.58	4.80	4.74	3	3.50
2/12/2013	16:24	Tillo	Middle	-	24.60	24.60	24.00	8.33	8.33	0.02	32.08	32.08	32.00	87.6	87.1	07.0	6.07	6.04	0.07	4.84	4.73	7.77	4	5.50
4/12/2015	15:04	Fine	Middle	-	23.70	23.70	23.70	8.39	8.39	8.40	32.47	32.47	32.48	76.3	74.3	73.6	5.36	5.22	5.17	5.41	5.34	5.34	6	5.00
4/12/2015	15:06	Fille	Middle	-	23.70	23.70	23.70	8.40	8.40	0.40	32.48	32.48	32.40	72.4	71.2	73.0	5.09	5.00	5.17	5.38	5.23	5.34	4	5.00
7/12/2015	15:45	Fine	Middle	-	23.20	23.20	23.10	8.35	8.35	8.38	32.97	32.97	32.98	95.1	94.5	04.4	6.74	6.70	6.67	4.51	4.52	4.52	2	2.00
7/12/2015	15:47	Fine	Middle	-	23.00	23.00	23.10	8.41	8.41	0.30	32.98	32.98	32.90	93.8	92.9	94.1	6.65	6.59	0.07	4.53	4.51	4.52	2	2.00
0/40/0045	17:10		Middle	-	21.80	21.80	04.75	8.35	8.35	0.00	32.90	32.90	20.04	87.8	88.3	07.0	6.37	6.40	0.00	7.78	7.82	7.70	8	0.50
9/12/2015	17:12	Rainy	Middle	-	21.70	21.70	21.75	8.40	8.40	8.38	32.92	32.92	32.91	87.4	88.0	87.9	6.35	6.39	6.38	7.61	7.60	7.70	9	8.50
	14:56		Middle	-	23.30	23.30		8.40	8.40		32.58	32.58		67.7	66.9		4.79	4.73		4.68	4.68		<2	_
11/12/2015	14:58	Fine	Middle	-	23.40	23.40	23.35	8.40	8.40	8.40	32.60	32.60	32.59	66.6	66.4	66.9	4.71	4.69	4.73	4.81	4.81	4.75	<2	<2
	10:30		Middle	-	22.60	22.60		8.36	8.36		32.82	32.82		81.3	83.1		5.81	5.94		3.95	3.95		3	
14/12/2015	10:32	Cloudy	Middle	-	22.50	22.50	22.55	8.38	8.38	8.37	32.84	32.84	32.83	84.0	84.5	83.2	6.01	6.05	5.95	3.97	3.98	3.96	4	3.50
	11:30		Middle	-	21.40	21.40		8.38	8.38		32.80	32.80		86.0	87.0		6.28	6.36		6.39	6.40		9	
16/12/2015	11:32	Fine	Middle	-	21.20	21.20	21.30	8.39	8.39	8.39	32.82	32.82	32.81	87.0	85.9	86.5	6.36	6.29	6.32	6.43	6.45	6.42	9	9.00
	15:54		Middle	-	20.80	20.80		8.36	8.36		32.80	32.80		84.8	84.3		6.26	6.23		8.00	8.00		9	
18/12/2015	15:56	Fine	Middle	-	20.80	20.80	20.80	8.37	8.37	8.37	32.84	32.84	32.82	83.6	84.2	84.2	6.17	6.22	6.22	8.02	8.03	8.01	8	8.50
	14:45		Middle	-	20.80	20.80		8.30	8.30		32.71	32.71		84.9	83.5		6.27	6.17		6.81	6.71		8	
21/12/2015	14:47	Fine	Middle	-	20.90	20.90	20.85	8.34	8.34	8.32	32.70	32.70	32.71	84.6	84.8	84.5	6.25	6.21	6.23	6.69	6.66	6.72	6	7.00
	15:30		Middle	-	21.20	21.20		8.17	8.17		32.41	32.41		89.2	91.1		6.55	6.69		4.59	4.59		5	
23/12/2015	15:32	Cloudy	Middle	-	21.30	21.30	21.25	8.28	8.28	8.23	32.40	32.40	32.41	90.7	91.3	90.6	6.66	6.70	6.65	4.65	4.65	4.62	6	5.50
	6:47		Middle	-	19.90	19.90		8.36	8.36		32.49	32.49		79.9	80.8		6.02	6.09		2.19	2.21		<2	
26/12/2015	6:48	Cloudy	Middle	-	19.80	19.80	19.85	8.38	8.38	8.37	32.52	32.52	32.51	80.2	79.6	80.1	6.04	6.00	6.04	2.27	2.38	2.26	<2	<2



Water Monitoring Result at C1 - HKCEC Extension Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pH			Salinit	ту	D	O Satur	ation		DO mg/L			Turbid		Suspende	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	11:20	Fine	Middle Middle	3.0	23.80	23.80	23.80	8.39 8.39	8.39 8.39	8.39	32.21 32.23	32.21	32.22	83.8 84.5	85.7 85.4	84.9	5.88 5.93	6.02	5.96	7.49 7.18	7.36 7.19	7.31	4	4.00
	11.22		Middle	3.0	23.60	23.60		0.39	0.39		32.23	32.23		04.3	65.4		5.95	0.00		7.10	7.19		4	
2/12/2015	15:31	Fine	Middle	2.5	24.10	24.10	24.10	8.38	8.38	8.38	32.32	32.32	32.33	74.6	73.1	72.6	5.21	5.10	5.07	5.75	5.80	5.79	4	4.00
	15:33		Middle	2.5	24.10	24.10		8.38	8.38		32.33	32.33		71.8	71.0		5.01	4.96		5.80	5.79		4	
4/12/2015	14:20	Eine	Middle	2.5	22.90	22.90	22.85	8.42	8.42	8.43	32.70	32.70	32.71	78.0	76.9	77.2	5.56	5.48	5.51	7.14	7.10	7.09	5	5.00
4/12/2015	14:22	Fine	Middle	2.5	22.80	22.80	22.65	8.43	8.43	0.43	32.71	32.71	32.71	77.4	76.4	11.2	5.54	5.44	5.51	7.07	7.05	7.09	5	5.00
	14:56		Middle	2.5	22.20	22.20		8.48	8.48		33.05	33.05		75.4	73.7		5.42	5.30		5.89	5.83		3	
7/12/2015	14:58	Fine	Middle	2.5	22.20	22.20	22.20	8.48	8.48	8.48	33.06	33.06	33.06	72.3	71.3	73.2	5.20	5.13	5.26	5.84	5.87	5.86	3	3.00
	16:07		Middle	2.5	21.60	21.60		8.46	8.46		32.54	32.54		77.5	76.1		5.65	5.54		7.89	8.05		8	
9/12/2015	16:09	Rainy	Middle	2.5	21.60	21.60	21.60	8.46	8.46	8.46	32.55	32.55	32.55	73.7	72.6	75.0	5.37	5.29	5.46	7.79	8.22	7.99	6	7.00
	16:47		Middle	2.5	21.90	21.90		8.43	8.43		32.84	32.84		75.1	74.9		5.44	5.42		4.81	4.68		2	
11/12/2015	16:49	Fine	Middle	2.5	21.90	21.90	21.90	8.43	8.43	8.43	32.84	32.84	32.84	74.3	73.2	74.4	5.38	5.29	5.38	4.82	4.82	4.78	3	2.50
	9:40		Middle	3.0	21.70	21.70		8.44	8.44		32.97	32.97		83.9	85.4		6.09	6.20		8.56	8.47		8	
14/12/2015		Cloudy					21.70			8.44			32.98			84.4			6.12			8.48		8.00
	9:42		Middle	3.0	21.70	21.70		8.44	8.44		32.98	32.98		84.3	83.8		6.12	6.08		8.45	8.44		8	
16/12/2015	10:40	Fine	Middle	2.5	19.90	19.90	19.90	8.45	8.45	8.45	32.91	32.91	32.92	73.6	73.1	72.8	5.52	5.49	5.46	8.11	7.80	7.89	8	8.00
	10:42		Middle	2.5	19.90	19.90		8.45	8.45		32.93	32.93		72.5	71.8		5.44	5.38		7.84	7.80		8	
18/12/2015	10:44	Fine	Middle	2.5	19.10	19.10	19.10	8.42	8.42	8.42	32.84	32.84	32.86	75.0	74.8	75.7	5.71	5.69	5.76	6.34	6.41	6.40	4	4.50
	10:46		Middle	2.5	19.10	19.10		8.42	8.42		32.87	32.87		76.0	77.0		5.78	5.87		6.42	6.42		5	
21/12/2015	16:48	Fine	Middle	3.0	20.10	20.10	15.08	8.43	8.43	8.43	32.92	32.92	32.92	87.1	87.9	87.2	6.51	6.57	6.51	5.58	5.53	5.53	2	2.00
21/12/2013	16:50	Tille	Middle	3.0	0.00	20.10	15.00	8.43	8.43	0.43	32.92	32.92	52.52	87.2	86.4	07.2	6.52	6.45	0.51	5.49	5.51	5.55	2	2.00
00/10/0015	16:55	0	Middle	2.5	20.60	20.60	22.25	8.39	8.39	0.00	32.73	32.73	00.74	82.5	81.8	24.4	6.11	6.06		6.20	6.18	0.07	6	5.50
23/12/2015	16:57	Cloudy	Middle	2.5	20.70	20.70	20.65	8.39	8.39	8.39	32.74	32.74	32.74	81.1	80.1	81.4	6.01	5.93	6.03	6.28	6.41	6.27	5	5.50
	6:07		Middle	2.5	19.20	19.20		8.38	8.38		32.00	32.00		70.3	70.9		5.37	5.41		3.28	3.55		4	
26/12/2015	6:08	Cloudy	Middle	2.5	19.20	19.20	19.20	8.40	8.39	8.39	32.00	32.00	32.00	70.8	70.8	70.7	5.41	5.41	5.40	3.61	3.50	3.49	2	3.00



Water Monitoring Result at P1 - HKCEC Phase I Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	11:00	Fine	Middle Middle	3.0	23.90	23.90	23.90	8.34 8.36	8.34 8.36	8.35	32.04 32.04	32.04	32.04	88.4 88.7	89.8 87.8	88.7	6.20	6.30 6.16	6.22	6.27	6.41	6.38	4	4.00
					<u> </u> 								<u> </u>											<u> </u>
2/12/2015	15:15	Fine	Middle	2.5	24.30	24.30	24.40	8.28	8.28	8.30	32.47	32.47	32.44	81.9	81.7	81.8	5.69	5.67	5.68	6.88	7.00	6.94	4	4.00
	15:17		Middle	2.5	24.50	24.50		8.32	8.32		32.40	32.40		82.3	81.3		5.71	5.64		6.97	6.90		4	<u> </u>
4/12/2015	14:04	Fine	Middle	2.5	22.70	22.70	22.70	8.27	8.27	8.30	32.58	32.58	32.58	78.7	77.2	77.3	5.63	5.52	5.53	5.76	5.75	5.73	4	3.50
	14:06		Middle	2.5	22.70	22.70	220	8.33	8.33	0.00	32.57	32.57	02.00	76.8	76.6	77.0	5.49	5.48	0.00	5.71	5.70	0.10	3	0.00
7/40/0045	14:40	Ein -	Middle	2.5	22.10	22.10	00.05	8.43	8.43	0.44	33.10	33.10	20.40	79.5	80.9	04.4	5.73	5.83	5.04	4.29	4.27	4.00	3	0.50
7/12/2015	14:42	Fine	Middle	2.5	22.00	22.00	22.05	8.44	8.44	8.44	33.13	33.13	33.12	82.7	81.1	81.1	5.93	5.85	5.84	4.27	4.29	4.28	4	3.50
	15:51		Middle	2.5	21.30	21.30		8.37	8.37		32.77	32.77		77.5	75.4		5.68	5.53		5.62	5.62		6	
9/12/2015	15:53	Rainy	Middle	2.5	21.20	21.20	21.25	8.41	8.41	8.39	32.77	32.77	32.77	74.7	73.4	75.3	5.47	5.38	5.52	5.62	5.63	5.62	4	5.00
	16:31		Middle	2.5	21.80	21.80		8.37	8.37		33.00	33.00		76.9	76.9		5.57	5.56		5.64	5.48		3	
11/12/2015	16:33	Fine	Middle	2.5	21.90	21.90	21.85	8.39	8.39	8.38	32.97	32.97	32.99	76.3	74.7	76.2	5.52	5.40	5.51	5.44	5.38	5.49	3	3.00
					<u> </u> 	l I			 						<u> </u>									
14/12/2015	9:15	Cloudy	Middle	3.0	21.80	21.80	21.80	8.31	8.31	8.34	32.79	32.79	32.72	91.4	89.7	90.5	6.63	6.50	6.56	6.92	6.90	6.81	5	5.00
	9:17		Middle	3.0	21.80	21.80		8.37	8.37		32.65	32.65		90.7	90.0		6.57	6.52		6.71	6.70		5	<u> </u>
16/12/2015	10:24	Fine	Middle	2.5	19.20	19.20	19.15	8.43	8.43	8.43	32.89	32.89	32.90	74.2	74.0	73.5	5.65	5.63	5.59	6.29	6.29	6.28	4	4.50
	10:26		Middle	2.5	19.10	19.10		8.43	8.43		32.90	32.90		73.4	72.2		5.59	5.50		6.29	6.25		5	
18/12/2015	10:28	Fine	Middle	2.5	17.70	17.70	17.70	8.38	8.38	8.39	32.88	32.88	32.91	77.0	76.2	76.2	6.02	5.96	5.94	6.83	6.83	6.83	9	9.00
10,12,2010	10:30	1 1110	Middle	2.5	17.70	17.70	17.70	8.40	8.40	0.00	32.94	32.94	02.01	75.7	75.7	70.2	5.92	5.87	0.54	6.83	6.83	0.00	9	0.00
04/40/0045	16:32	-	Middle	3.0	20.10	20.10	00.00	8.30	8.30	0.04	32.89	32.89	20.00	90.6	89.0	07.7	6.68	6.64	0.50	3.51	3.51	0.54	4	0.50
21/12/2015	16:34	Fine	Middle	3.0	20.30	20.30	20.20	8.37	8.37	8.34	32.88	32.88	32.89	84.9	86.1	87.7	6.33	6.42	6.52	3.51	3.51	3.51	3	3.50
	16:39		Middle	2.5	21.00	21.00		8.15	8.15		32.86	32.86		84.1	82.8		6.18	6.09		5.65	5.65		6	
23/12/2015	16:41	Cloudy	Middle	2.5	21.10	21.10	21.05	8.27	8.27	8.21	32.79	32.79	32.83	84.7	81.1	83.2	6.00	5.96	6.06	5.72	5.47	5.62	7	6.50
	5:47		Middle	2.5	19.10	19.10		8.41	8.41		32.36	32.37		72.8	73.3		5.56	5.60		3.47	3.11		4	
26/12/2015	5:48	Cloudy	Middle	2.5	19.10	19.10	19.10	8.42	8.42	8.42	32.36	32.36	32.36	73.4	73.5	73.3	5.61	5.62	5.60	3.09	3.14	3.20	5	4.50
	0.70		Middle	2.5	19.10	13.10		5.72	0.72		52.50	52.50		75.4	75.5		5.01	5.02		5.05	5.17		<u> </u>	



Water Monitoring Result at P3 - APA Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	11:05 11:07	Fine	Middle Middle	3.0	23.70	23.70	23.75	8.36 8.37	8.36 8.37	8.37	32.03 32.04	32.03 32.04	32.04	83.4 83.7	84.1 84.0	83.8	5.87 5.89	5.92 5.91	5.90	5.32 5.47	5.43 5.34	5.39	4 5	4.50
	11.07		Middle	3.0	23.00	23.60		0.31	0.31		32.04	32.04	1	03.1	04.0		5.69	5.91		3.47	5.54		<u> </u>	<u> </u>
2/12/2015	15:19	Fine	Middle	2.5	24.20	24.20	24.25	8.34	8.34	8.35	32.35	32.35	32.35	76.8	75.4	74.9	5.35	5.25	5.22	6.55	6.46	6.33	4	5.00
	15:21		Middle	2.5	24.30	24.30		8.35	8.35		32.34	32.34		74.1	73.2		5.16	5.10		6.18	6.13		6	
4/12/2015	14:08	Eine	Middle	2.5	22.60	22.60	22.60	8.35	8.35	0.00	32.72	32.72	22.65	80.9	80.5	70.0	5.79	5.76	E 74	5.26	5.21	5.22	6	5.00
4/12/2015	14:10	Fine	Middle	2.5	22.60	22.60	22.60	8.37	8.37	8.36	32.57	32.57	32.65	80.0	77.8	79.8	5.73	5.57	5.71	5.20	5.20	5.22	4	5.00
	14:44		Middle	2.5	22.20	22.20		8.45	8.45		33.05	33.05		73.2	71.7		5.25	5.14		4.20	4.00		4	
7/12/2015	14:46	Fine	Middle	2.5	22.30	22.10	22.20	8.45	8.45	8.45	33.04	33.04	33.05	70.9	70.5	71.6	5.09	5.06	5.14	3.82	3.82	3.96	3	3.50
	15:55		Middle	2.5	21.50	21.50		8.42	8.42		32.83	32.83		69.4	68.5		5.06	4.99		6.42	6.54		3	
9/12/2015	15:57	Rainy	Middle	2.5	21.50	21.50	21.50	8.43	8.43	8.43	32.83	32.83	32.83	67.1	66.3	67.8	4.89	4.83	4.94	6.29	6.29	6.39	5	4.00
	16:35		Middle	2.5	21.40	21.40		8.41	8.41		32.93	32.93		74.4	73.5		5.44	5.37		4.56	4.55		4	
11/12/2015	16:37	Fine	Middle	2.5	21.40	21.40	21.40	8.41	8.41	8.41	32.90	32.90	32.92	73.1	72.8	73.5	5.34	5.31	5.37	4.56	4.40	4.52	3	3.50
	9:20		Middle	3.0	21.70	21.70		8.39	8.39		32.40	32.40		86.2	86.4		6.26	6.27		7.50	7.51		5	
14/12/2015		Cloudy					21.70			8.39			32.64			85.8			6.23			7.57		5.50
	9:22		Middle	3.0	21.70	21.70		8.39	8.39		32.87	32.87		85.4	85.2		6.20	6.19		7.60	7.67		6	
16/12/2015	10:28	Fine	Middle	2.5	19.70	19.70	19.65	8.43	8.43	8.43	32.88	32.88	32.91	77.6	76.3	76.5	5.85	5.75	5.77	7.14	7.02	7.02	4	5.00
	10:30		Middle	2.5	19.60	19.60		8.43	8.43		32.93	32.93		75.8	76.4		5.71	5.76		6.98	6.93		6	
18/12/2015	10:32	Fine	Middle	2.5	18.50	18.40	18.43	8.41	8.41	8.41	32.88	32.88	32.90	75.3	75.0	74.9	5.81	5.79	5.78	6.82	6.92	6.96	7	8.00
	10:34		Middle	2.5	18.40	18.40		8.41	8.41		32.91	32.91		74.8	74.3		5.77	5.73		7.06	7.05		9	
21/12/2015	16:36	Fine	Middle	3.0	20.10	20.10	20.15	8.38	8.38	8.39	32.87	32.87	32.87	83.3	86.7	86.3	6.22	6.48	6.44	4.41	4.48	4.50	<2	<2
21/12/2013	16:38	Tille	Middle	3.0	20.20	20.20	20.15	8.39	8.39	0.55	32.87	32.87	32.01	87.7	87.3	00.0	6.55	6.52	0.44	4.55	4.56	4.50	<2	12
00/40/0045	16:43	Olevet	Middle	2.5	21.20	21.20	04.00	8.29	8.29	0.00	32.61	32.61	20.00	84.8	85.4	04.0	6.26	6.31	0.00	7.28	7.24	7.00	6	5.50
23/12/2015	16:45	Cloudy	Middle	2.5	20.80	20.80	21.00	8.34	8.34	8.32	32.71	32.71	32.66	84.6	81.8	84.2	6.26	6.05	6.22	7.36	7.40	7.32	5	5.50
	5:52		Middle	2.5	19.10	19.10		8.30	8.30		32.01	32.01		70.8	71.8		5.42	5.49		3.36	3.38		4	
26/12/2015	5:53	Cloudy	Middle	2.5	19.10	19.10	19.10	8.35	8.35	8.33	32.02	32.02	32.02	73.3	72.6	72.1	5.61	5.55	5.52	3.35	3.41	3.38	6	5.00



Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	11:10	Fine	Middle	3.0	23.80	23.80	23.80	8.37	8.37	8.37	32.07	32.07	32.11	82.0	82.5	82.1	5.76	5.80	5.77	6.50	6.47	6.46	5	6.00
	11:12		Middle	3.0	23.80	23.80		8.37	8.37		32.14	32.14		82.4	81.3		5.79	5.71		6.45	6.43		7	<u> </u>
2/12/2015	15:23	Fine	Middle	2.5	24.10	24.10	24.10	8.36	8.36	8.37	32.34	32.34	32.34	74.3	74.6	74.3	5.19	5.21	5.19	5.74	5.50	5.43	3	3.50
	15:25		Middle	2.5	24.10	24.10		8.37	8.37		32.34	32.34		74.3	73.8		5.19	5.15		5.25	5.24		4	
4/12/2015	14:12	Fine	Middle	2.5	22.60	22.60	22.60	8.38	8.38	8.39	32.61	32.61	32.63	81.3	80.6	79.1	5.82	5.77	5.66	6.13	6.10	6.06	3	2.50
4/12/2015	14:14	Fille	Middle	2.5	22.60	22.60	22.00	8.40	8.40	0.39	32.64	32.64	32.03	77.7	76.8	79.1	5.56	5.49	5.00	6.06	5.96	0.00	2	2.50
7/40/0045	14:48		Middle	2.5	22.10	22.10	00.40	8.46	8.46	0.47	33.12	33.12	00.40	74.7	73.7	70.0	5.38	5.30	5 00	4.38	4.47	4.40	4	4.00
7/12/2015	14:50	Fine	Middle	2.5	22.10	22.10	22.10	8.47	8.47	8.47	33.13	33.13	33.13	73.6	73.3	73.8	5.30	5.28	5.32	4.48	4.35	4.42	4	4.00
	15:59		Middle	2.5	21.40	21.40		8.45	8.45		32.70	32.70		77.5	76.5		5.67	5.60		5.76	5.88		5	
9/12/2015	16:01	Rainy	Middle	2.5	21.40	21.40	21.40	8.45	8.45	8.45	32.70	32.70	32.70	75.2	73.6	75.7	5.50	5.38	5.54	5.89	5.68	5.80	5	5.00
	16:39		Middle	2.5	21.80	21.80		8.42	8.42		32.82	32.82		78.1	77.2		5.66	5.59		4.82	4.83		<2	
11/12/2015	16:41	Fine	Middle	2.5	21.80	21.80	21.80	8.42	8.42	8.42	32.84	32.84	32.83	77.6	78.5	77.9	5.63	5.69	5.64	4.92	4.92	4.87	<2	<2
	9:25		Middle	3.0	21.60	21.60		8.41	8.41		32.97	32.97		85.0	85.9		6.18	6.25		8.83	8.70		7	
14/12/2015	9:27	Cloudy	Middle	3.0	21.60	21.60	21.60	8.43	8.43	8.42	32.96	32.96	32.97	84.2	84.0	84.8	6.12	6.11	6.17	8.69	8.76	8.75	9	8.00
	10:32		Middle	2.5	19.50	19.50		8.44	8.44		32.75	32.75		81.7	80.7		6.18	6.10		7.73	7.48		4	<u> </u>
16/12/2015	10:34	Fine	Middle	2.5	19.40	19.40	19.45	8.45	8.45	8.45	32.89	32.89	32.82	80.5	80.6	80.9	6.09	6.10	6.12	7.61	7.54	7.59	5	4.50
	10:34			2.5	<u> </u>	 																		<u> </u>
18/12/2015		Fine	Middle		18.70	18.70	18.70	8.41	8.41	8.42	32.89	32.89	32.89	79.1	76.8	76.4	6.07	5.89	5.84	6.82	6.87	6.83	6	6.50
	10:38		Middle	2.5	18.70	18.70		8.42	8.42		32.89	32.89		75.8	73.8		5.74	5.67		6.82	6.82		7	<u> </u>
21/12/2015	16:40	Fine	Middle	3.0	20.00	20.00	20.00	8.40	8.40	8.41	32.92	32.92	32.92	85.9	84.9	85.4	6.43	6.36	6.40	4.89	4.92	4.96	3	2.50
	16:42		Middle	3.0	20.00	20.00		8.41	8.41		32.92	32.92		85.2	85.5		6.38	6.41		4.99	5.02		2	<u> </u>
23/12/2015	16:47	Cloudy	Middle	2.5	20.70	20.70	20.75	8.35	8.35	8.36	32.71	32.71	32.72	82.5	81.2	81.2	6.10	6.00	6.02	7.24	7.17	7.20	5	5.50
	16:49	j	Middle	2.5	20.80	20.80		8.37	8.37		32.73	32.73		80.9	80.3		6.05	5.94		7.31	7.09		6	
26/12/2015	5:57	Cloudy	Middle	2.5	18.90	18.90	18.90	8.44	8.44	8.44	32.09	32.09	32.09	74.9	76.3	76.6	5.74	5.85	5.88	3.59	3.51	3.56	5	4.50
20/12/2013	5:58	Cloudy	Middle	2.5	18.90	18.90	10.50	8.43	8.43	0.44	32.09	32.09	32.09	77.6	77.7	70.0	5.95	5.96	5.00	3.54	3.60	3.30	4	4.50



Water Monitoring Result at P5 - WCT / RT / IT Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pH			Salinit	ту	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	11:15	Fine	Middle	3.0	23.90	23.90	23.90	8.37	8.37	8.38	32.29	32.29	32.29	82.6	83.0	83.2	5.79	5.89	5.85	5.58	5.57	5.57	4	4.50
	11:17		Middle	3.0	23.90	23.90		8.38	8.38		32.29	32.29		83.8	83.3		5.88	5.84		5.52	5.59		5	<u> </u>
2/12/2015	15:27	Fine	Middle	2.5	24.10	24.10	24.10	8.37	8.37	8.38	32.16	32.16	32.22	73.6	72.3	71.9	5.14	5.05	5.02	5.29	5.24	5.24	4	3.50
27.2720.0	15:29		Middle	2.5	24.10	24.10	20	8.38	8.38	0.00	32.28	32.28	02.22	71.7	70.0		5.01	4.88	0.02	5.22	5.21	0.2	3	0.00
4/12/2015	14:16	Fine	Middle	2.5	22.70	22.70	22.75	8.40	8.40	8.41	31.67	31.67	32.17	77.2	78.5	77.5	5.51	5.60	5.53	6.90	6.78	6.74	6	5.00
4/12/2015	14:18	rine	Middle	2.5	22.80	22.80	22.75	8.42	8.42	0.41	32.67	32.67	32.17	77.9	76.2	11.5	5.56	5.43	5.53	6.73	6.56	0.74	4	5.00
7/40/0045	14:52	Fin -	Middle	2.5	22.00	22.00	00.00	8.47	8.47	0.40	33.07	33.07	00.07	75.2	73.4	70.0	5.38	5.29	5.00	4.78	4.80	4.00	5	5.00
7/12/2015	14:54	Fine	Middle	2.5	22.00	22.00	22.00	8.48	8.48	8.48	33.07	33.07	33.07	72.6	71.9	73.3	5.24	5.19	5.28	4.83	4.85	4.82	5	5.00
	16:03		Middle	2.5	21.60	21.60		8.46	8.46		32.50	32.50		76.5	74.2		5.37	5.40		7.31	7.45		7	
9/12/2015	16:05	Rainy	Middle	2.5	21.60	21.60	21.60	8.46	8.46	8.46	32.52	32.52	32.51	72.6	72.4	73.9	5.29	5.20	5.32	7.85	7.89	7.63	7	7.00
	16:43		Middle	2.5	22.00	22.00		8.42	8.42		32.82	32.82		74.0	72.3		5.32	5.22		5.03	4.96		<2	
11/12/2015	16:45	Fine	Middle	2.5	22.00	22.00	22.00	8.42	8.42	8.42	32.82	32.82	32.82	70.1	69.0	71.4	5.06	4.99	5.15	4.92	4.86	4.94	<2	<2
	9:33		Middle	3.0	21.70	21.70		8.43	8.43		32.98	32.98		82.1	81.8		5.96	5.94		8.49	8.52		9	
14/12/2015	9:35	Cloudy	Middle	3.0	21.70	32.70	24.45	8.44	8.44	8.44	32.99	32.99	32.99	82.1	80.4	81.6	5.96	5.84	5.93	8.54	8.55	8.53	8	8.50
	10:36		Middle	2.5	19.90	19.90		8.45	8.45		32.88	32.88		79.8	79.1		5.98	5.93		8.11	8.22		14	
16/12/2015	10:38	Fine	Middle	2.5	19.90	19.90	19.90	8.45	8.45	8.45	32.92	32.92	32.90	77.6	76.8	78.3	5.82	5.76	5.87	8.31	8.30	8.24	15	14.50
	10:40		Middle	2.5	19.00	19.00		8.42	8.42		32.84	32.84		75.3	74.2		5.75	5.59		6.47	6.30		6	
18/12/2015	10:42	Fine	Middle	2.5	18.90	18.90	18.95	8.42	8.42	8.42	32.84	32.84	32.84	73.0	72.8	73.8	5.57	5.56	5.62	6.29	6.27	6.33	7	6.50
	16:44		Middle	3.0	20.00	20.00		8.42	8.42		32.92	32.92		87.8	87.3		6.57	6.53		5.62	5.76		3	
21/12/2015		Fine					20.00			8.42			32.92			87.2			6.53			5.72		3.50
	16:46		Middle	3.0	20.00	20.00		8.42	8.42		32.92	32.92		87.0	86.7		6.51	6.49		5.75	5.75		4	
23/12/2015	16:51	Cloudy	Middle	2.5	20.70	20.70	20.95	8.35	8.38	8.37	32.63	32.63	32.69	82.4	80.6	80.6	6.10	5.97	5.97	7.49	7.43	7.44	9	9.00
	16:53		Middle	2.5	21.70	20.70		8.38	8.38		32.74	32.74		79.5	79.8		5.88	5.91		7.43	7.41		9	<u> </u>
26/12/2015	6:02	Cloudy	Middle	2.5	19.00	19.00	19.00	8.44	8.44	8.44	31.73	31.72	31.73	72.1	72.3	72.1	5.55	5.56	5.55	3.56	3.59	3.53	3	3.00
	6:03	Ť	Middle	2.5	19.00	19.00		8.43	8.43		31.74	31.74		72.0	72.1		5.54	5.54		3.50	3.48		3	<u> </u>



Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pH -			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ılue	Average	Va	lue	Average	Value	Average
30/11/2015	11:40 11:42	Fine	Middle Middle	3.5 3.5	24.10	24.10	24.10	8.38 8.39	8.38 8.39	8.39	32.43 32.43	32.43 32.43	32.43	82.4 82.0	83.6 83.0	82.8	5.78 5.79	5.84 5.81	5.81	11.02	11.30	<u>11.13</u>	7	8.00
	11.42		Middle	3.5	24.10	24.10		0.39	0.39		32.43	32.43		02.0	65.0		5.79	5.01		11.17	11.04		<u>9</u>	
2/12/2015	15:50	Fine	Middle	3.5	24.20	24.20	24.25	8.32	8.32	8.34	32.45	32.45	32.45	84.2	81.0	80.6	5.86	5.64	5.61	3.33	3.34	3.33	6	6.50
	15:52		Middle	3.5	24.30	24.30		8.35	8.35		32.44	32.44	00	79.2	78.0		5.51	5.43		3.33	3.33		7	
4/12/2015	14:37	Fine	Middle	3.5	22.90	22.90	22.90	8.37	8.37	8.39	32.69	32.69	32.70	80.0	78.6	78.2	5.68	5.59	5.56	6.88	6.47	6.63	5	5.50
4/12/2015	14:39	riile	Middle	3.5	22.90	22.90	22.90	8.41	8.41	0.39	32.70	32.70	32.70	77.4	76.6	70.2	5.51	5.45	5.50	6.65	6.53	0.03	6	5.50
7/12/2015	15:13	Fine	Middle	3.5	22.20	22.20	22.20	8.42	8.42	8.44	33.08	33.08	22.40	77.3	76.2	75.6	5.56	5.48	5.44	5.76	5.66	F 70	5	4.50
7/12/2015	15:15	Fine	Middle	3.5	22.20	22.20	22.20	8.45	8.45	8.44	33.11	33.11	33.10	74.8	74.0	75.6	5.38	5.32	5.44	5.64	5.82	5.72	4	4.50
	16:31		Middle	3.5	21.30	21.30		8.40	8.40		32.44	32.44		73.8	73.3		5.42	5.38		6.45	6.43		4	
9/12/2015	16:33	Rainy	Middle	3.5	21.20	21.20	21.25	8.42	8.42	8.41	32.47	32.47	32.46	73.3	73.8	73.6	5.38	5.42	5.40	6.39	6.37	6.41	4	4.00
	17:30		Middle	3.5	22.00	22.00		8.37	8.37		32.93	32.93		80.8	79.0		5.84	5.71		5.59	5.49		2	
11/12/2015	17:32	Fine	Middle	3.5	21.90	21.90	21.95	8.41	8.41	8.39	32.93	32.93	32.93	78.4	77.7	79.0	5.63	5.62	5.70	5.42	5.34	5.46	3	2.50
	9:55		Middle	3.5	21.80	21.80		8.38	8.38		32.95	32.95		90.1	89.8		6.53	6.50		5.91	5.90		8	
14/12/2015	9:57	Cloudy	Middle	3.5	21.80	21.80	21.80	8.40	8.40	8.39	32.96	32.96	32.96	89.4	88.5	89.5	6.49	6.41	6.48	5.89	5.89	5.90	7	7.50
	11:01		Middle	3.5	20.10	20.10		8.41	8.41		32.76	32.76		78.6	77.7		5.88	5.82		7.00	7.00		9	
16/12/2015	11:03	Fine	Middle	3.5	20.00	20.00	20.05	8.44	8.44	8.43	32.82	32.82	32.79	77.3	76.8	77.6	5.79	5.75	5.81	6.84	6.85	6.92	9	9.00
	11:00		Middle	3.5	19.40	19.40		8.36	8.36		32.73	32.73		82.5	82.0		6.25	6.21		5.75	5.49		4	
18/12/2015	11:02	Fine	Middle	3.5	19.40	19.40	19.40	8.39	8.39	8.38	32.90	32.90	32.82	81.0	80.6	81.5	6.14	6.11	6.18	5.74	5.66	5.66	5	4.50
	14:00		Middle	3.5	21.10	21.10		8.35	8.35		32.89	32.89		95.3	95.1		6.99	6.98		5.61	5.71		4	
21/12/2015	14:02	Fine	Middle	3.5	21.20	21.20	21.15	8.37	8.37	8.36	32.89	32.89	32.89	95.3	94.4	95.0	6.99	6.92	6.97	5.74	5.75	5.70	3	3.50
	14:50		Middle	3.5	21.10	21.10		8.24	8.24		32.68	32.68		94.1	96.5		7.27	7.07		4.30	4.15		5	
23/12/2015	14:52	Cloudy	Middle	3.5	21.30	21.30	21.20	8.32	8.32	8.28	32.67	32.67	32.68	94.9	94.1	94.9	6.92	6.89	7.04	4.15	4.14	4.19	4	4.50
	6:21		Middle	3.5	19.30	19.30		8.43	8.43		32.25	32.25		74.6	74.2		5.68	5.66		4.25	4.14		4	
26/12/2015	6:22	Cloudy	Middle	3.5	19.30	19.30	19.30	8.43	8.43	8.43	32.27	32.27	32.26	74.3	74.1	74.3	5.66	5.65	5.66	4.10	4.04	4.13	5	4.50
	0.22		wildale	3.5	19.30	19.30		0.43	0.43		32.21	32.21		14.3	74.1		0.00	5.05		4.10	4.04		5	<u> </u>



Water Monitoring Result at WSD19 - Sheung Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pH -			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU	ity	Suspende	
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	9:58 10:00	Fine	Middle Middle	3.5 3.5	23.70	23.70	23.65	8.27 8.32	8.27 8.32	8.30	32.15 32.16	32.15 32.16	32.16	85.4 82.9	85.4 82.5	84.1	6.01 5.84	6.01 5.82	5.92	8.57 8.56	8.56 8.56	<u>8.56</u>	6	6.00
	10.00		Middle	3.5	23.00	23.00		0.32	0.32		32.10	32.10		02.9	02.5		3.04	3.62		6.50	6.50			<u> </u>
2/12/2015	14:31	Fine	Middle	3.5	24.70	24.70	24.90	8.22	8.22	8.27	32.40	32.40	32.37	72.0	70.0	72.6	4.95	4.81	4.99	9.80	9.90	9.90	10	9.50
	14:33		Middle	3.5	25.10	25.10		8.32	8.32		32.33	32.33		74.0	74.3		5.09	5.11		9.94	9.94		9	
4/12/2015	13:13	Fine	Middle	3.5	23.30	23.30	23.30	8.34	8.34	8.34	32.50	32.50	32.49	70.1	69.9	69.6	4.96	4.96	4.92	5.83	5.83	5.84	2	2.00
4/12/2015	13:15	rille	Middle	3.5	23.30	23.30	23.30	8.34	8.34	0.34	32.48	32.48	32.49	69.5	68.8	09.0	4.91	4.86	4.92	5.84	5.84	5.04	2	2.00
7/10/0015	13:56	i	Middle	3.5	22.20	22.20	00.45	8.34	8.34	0.07	33.00	33.00	00.04	86.9	85.0	00.5	6.26	6.12	2.24	8.72	8.62	2.24	10	0.50
7/12/2015	13:58	Fine	Middle	3.5	22.10	22.10	22.15	8.40	8.40	8.37	33.01	33.01	33.01	81.6	80.5	83.5	5.88	5.79	6.01	8.55	8.55	<u>8.61</u>	9	9.50
	15:02		Middle	3.5	21.00	21.60		8.32	8.32		32.73	32.73		68.4	67.1		4.98	4.89		6.71	6.70		5	
9/12/2015	15:04	Rainy	Middle	3.5	21.60	21.60	21.45	8.36	8.36	8.34	32.80	32.80	32.77	66.2	68.0	67.4	4.82	4.73	4.86	6.69	6.65	6.69	6	5.50
	15:37		Middle	3.5	22.60	22.60		8.30	8.30		32.92	32.92		78.4	77.8		5.60	5.55		5.75	5.67		2	
11/12/2015	15:39	Fine	Middle	3.5	22.70	22.70	22.65	8.34	8.34	8.32	32.90	32.90	32.91	76.6	76.3	77.3	5.47	5.45	5.52	5.96	5.75	5.78	3	2.50
	8:10		Middle	3.5	21.70	21.70		8.34	8.34		32.97	32.97		84.0	85.1		6.09	6.17		8.01	8.00		7	
14/12/2015	8:12	Cloudy	Middle	3.5	21.70	21.70	21.70	8.36	8.36	8.35	32.97	32.97	32.97	85.0	84.2	84.6	6.17	6.11	6.14	8.00	8.00	8.00	8	7.50
	9:42		Middle	3.0	19.90	19.90		8.37	83.70		32.83	32.85		68.1	67.5		5.12	5.07		8.91	8.90		7	
16/12/2015	9:44	Fine	Middle	3.0	19.70	19.70	19.80	8.40	8.40	27.22	33.01	33.01	32.93	67.1	66.9	67.4	5.04	5.03	5.07	8.90	8.80	<u>8.88</u>	6	6.50
	9:46		Middle	3.5	18.50	18.50		8.15	8.15		32.69	32.69		73.4	72.5		5.66	5.59		8.49	8.53		8	
18/12/2015	9:48	Fine	Middle	3.5	18.20	18.20	18.35	8.24	8.24	8.20	32.88	32.88	32.79	71.7	71.0	72.2	5.53	5.48	5.57	8.62	8.66	<u>8.58</u>	8	8.00
	15:30		Middle	3.5	20.50	20.50		8.30	8.30		32.95	32.95		92.4	91.8		6.83	6.79		6.69	6.55		4	
21/12/2015		Fine					20.60			8.33			32.95			92.2			6.81			6.55		4.00
	15:32		Middle	3.5	20.70	20.70		8.35	8.35		32.94	32.94		91.8	92.6		6.79	6.84		6.50	6.46		4	
23/12/2015	15:52	Cloudy	Middle	3.5	20.80	20.80	20.85	8.15	8.15	8.21	32.82	32.79	32.79	91.3	87.7	86.8	6.72	6.46	6.39	8.25	8.26	8.24	6	6.00
	15:54		Middle	3.5	20.90	20.90		8.26	8.26		32.77	32.77		84.9	83.1		6.25	6.12		8.26	8.19		6	<u> </u>
26/12/2015	5:03	Cloudy	Middle	2.5	19.00	19.00	19.05	8.42	8.42	8.42	32.43	32.43	32.43	83.7	83.9	84.3	6.40	6.42	6.44	8.01	8.03	7.98	5	4.50
	5:04		Middle	2.5	19.10	19.10		8.42	8.42		32.42	32.42		84.7	84.8		6.47	6.48		7.90	7.98		4	



Water Monitoring Result at C7 - Windsor House Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/11/2015	2:02	Fine	Middle	-	22.90	22.90	22.85	8.37	8.37	8.38	32.62	32.62	32.62	77.4	77.2	78.1	5.52	5.51	5.57	3.46	3.17	3.19	2	2.00
	2:03		Middle	-	22.80	22.80		8.38	8.38		32.62	32.62		78.7	78.9		5.61	5.63		3.03	3.08		2	
2/12/2015	4:13	Cloudy	Middle	-	23.50	23.50	23.50	8.37	8.37	8.37	32.46	32.46	32.47	75.5	77.7	76.8	5.32	5.48	5.41	3.96	3.94	3.94	3	3.00
212/2010	4:14	Oloday	Middle	-	23.50	23.50	20.00	8.36	8.36	0.07	32.48	32.48	02.41	77.1	76.8	70.0	5.44	5.41	0.41	3.86	3.99	0.04	3	0.00
4/12/2015	3:00	Cloudy	Middle	-	21.60	21.60	21.50	8.38	8.38	8.40	32.67	32.67	32.68	81.5	82.2	81.9	5.98	6.00	5.99	3.86	3.88	3.91	3	3.50
	3:01	,	Middle	-	21.40	21.40		8.41	8.41		32.69	32.69		82.3	81.6		6.01	5.96		3.97	3.93		4	
7/12/2015	10:40	Fine	Middle	-1	22.50	22.50	22.40	8.42	8.42	8.43	32.97	32.97	32.98	88.6	89.9	88.5	6.36	6.44	6.35	6.08	6.12	6.12	4	4.00
771272013	10:42	i ille	Middle	-	22.30	22.30	22.40	8.43	8.43	0.43	32.99	32.99	32.90	88.0	87.5	00.5	6.31	6.27	0.33	6.13	6.14	0.12	4	4.00
0/40/0045	2:20	01 1	Middle	-	20.80	20.80	00.70	8.44	8.44	0.45	33.13	33.13	20.11	74.0	75.9	75.5	5.53	5.61	5.50	4.02	3.81	0.04	2	0.50
9/12/2015	2:21	Cloudy	Middle	-	20.60	20.60	20.70	8.46	8.46	8.45	33.15	33.15	33.14	75.7	76.2	75.5	5.59	5.63	5.59	3.72	3.69	3.81	3	2.50
10/10/0015	1:55	01 1	Middle	-	21.00	21.00	04.00	8.40	8.40	0.40	32.84	32.84	20.05	79.6	80.0	00.0	5.86	5.89	5.04	3.44	3.01		<2	
12/12/2015	1:56	Cloudy	Middle	-	21.00	21.00	21.00	8.40	8.40	8.40	32.85	32.85	32.85	80.2	81.2	80.3	5.90	5.98	5.91	2.91	2.94	3.08	<2	<2
14/12/2015	2:30	Claudy	Middle	-	21.30	21.30	21.25	8.31	8.31	8.32	32.89	32.89	32.89	73.0	74.8	74.7	5.34	5.48	5.47	3.17	3.23	3.24	3	4.00
14/12/2015	2:31	Cloudy	Middle	1	21.20	21.20	21.25	8.32	8.32	8.32	32.89	32.89	32.89	76.1	74.7	74.7	5.57	5.47	5.47	3.28	3.26	3.24	5	4.00
16/12/2015	2:24	Fine	Middle	-	18.50	18.50	18.45	8.42	8.42	8.43	33.01	33.01	33.01	79.7	79.9	79.8	6.14	6.16	6.16	7.03	7.05	6.76	4	3.00
10/12/2015	2:25	rille	Middle	1	18.40	18.40	16.45	8.43	8.43	0.43	33.01	33.01	33.01	80.0	79.7	79.0	6.17	6.15	0.10	6.47	6.49	0.70	2	3.00
18/12/2015	4:05	Fine	Middle	1	16.10	16.10	16.05	8.47	8.47	8.48	33.00	33.00	33.00	79.9	80.3	80.3	6.47	6.49	6.50	5.61	5.67	5.67	6	5.50
10/12/2013	4:06	Tille	Middle	•	16.00	16.00	10.00	8.48	8.48	0.40	33.00	33.00	33.00	80.6	80.3	00.5	6.52	6.50	0.50	5.68	5.71	5.01	5	3.30
21/12/2015	10:30	Cloudy	Middle	-	20.80	20.80	20.80	8.37	8.37	8.38	32.68	32.68	32.68	86.0	86.6	86.8	6.35	6.40	6.41	8.34	8.30	8.30	4	3.50
21/12/2015	10:32	Cloudy	Middle	1	20.80	20.80	20.60	8.38	8.38	0.30	32.68	32.68	32.00	87.3	87.3	00.0	6.45	6.45	0.41	8.29	8.26	6.30	3	3.50
22/42/2045	11:02	Fine	Middle	-	21.20	21.20	24.20	8.30	8.30	0.22	32.62	32.62	22.62	78.7	79.3	70.0	5.78	5.82	F 04	5.64	5.86	5.00	7	6.50
23/12/2015	11:04	Fine	Middle	1	21.20	21.20	21.20	8.33	8.33	8.32	32.63	32.63	32.63	79.3	79.5	79.2	5.82	5.83	5.81	6.00	6.09	5.90	6	6.50
26/12/2015	1:30	Cloudy	Middle	-	19.40	19.40	19.40	8.31	8.31	8.32	32.48	32.48	32.49	78.4	78.5	78.6	5.96	5.96	5.97	3.07	3.03	2.01	4	3.50
20/12/2015	1:31	Cloudy	Middle	·	19.40	19.40	19.40	8.32	8.32	0.32	32.49	32.49	32.49	78.8	78.8	70.0	5.98	5.99	ວ.ສາ	2.97	2.95	3.01	3	3.30



Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/11/2015	4:56	Fine	Middle	2.0	22.80	22.80	22.80	8.41	8.41	8.41	31.94	31.94	31.94	77.0	76.1	76.2	5.52	5.45	5.46	4.94	4.89	4.99	4	4.00
	4:57		Middle	2.0	22.80	22.80		8.41	8.41		31.94	31.94		75.5	76.1		5.41	5.46		5.07	5.05		4	
2/12/2015	5:09	Cloudy	Middle	2.5	23.20	23.20	23.20	8.28	8.28	8.29	31.58	31.58	31.58	73.1	73.7	73.2	5.20	5.26	5.21	4.98	4.82	4.90	4	4.00
	5:10		Middle	2.5	23.20	23.20		8.30	8.30		31.58	31.58		73.4	72.6		5.22	5.17		4.84	4.96		4	<u> </u>
4/12/2015	5:01	Cloudy	Middle	2.5	21.60	21.60	21.55	8.32	8.32	8.33	31.57	31.57	31.58	73.5	74.3	73.7	5.40	5.46	5.42	3.58	3.52	3.54	3	3.00
	5:02		Middle	2.5	21.50	21.50		8.33	8.33		31.59	31.59		73.8	73.2		5.42	5.38		3.50	3.55		3	
7/12/2015	9:57	Fine	Middle	2.5	21.70	21.70	21.70	8.48	8.48	8.49	33.16	33.16	33.16	76.1	75.1	74.9	5.52	5.45	5.44	6.69	6.77	6.74	4	5.00
	9:59	2	Middle	2.5	21.70	21.70		8.49	8.49		33.16	33.16		74.3	74.1		5.39	5.38		6.77	6.74		6	
9/12/2015	2:55	Cloudy	Middle	2.0	20.90	20.90	20.85	8.39	8.39	8.40	32.57	32.57	32.57	75.9	76.6	76.6	5.62	5.67	5.67	3.30	3.32	3.28	2	2.50
9/12/2015	2:56	Cloudy	Middle	2.0	20.80	20.80	20.65	8.41	8.41	6.40	32.56	32.56	32.37	76.9	76.8	70.0	5.70	5.69	5.07	3.26	3.23	3.20	3	2.50
12/12/2015	3:48	Cloudy	Middle	2.0	21.20	21.20	21.20	8.41	8.41	8.42	32.90	32.90	32.91	76.4	77.0	76.9	5.61	5.64	5.64	4.72	4.77	4.78	2	2.00
12/12/2015	3:49	Cloudy	Middle	2.0	21.20	21.20	21.20	8.42	8.42	0.42	32.91	32.91	32.91	77.3	76.8	70.9	5.67	5.63	5.04	4.81	4.83	4.70	2	2.00
14/12/2015	4:51	Cloudy	Middle	2.0	21.50	21.50	21.50	8.43	8.43	8.44	32.94	32.94	32.95	77.5	77.9	77.8	5.65	5.68	5.67	6.57	6.49	6.47	4	4.00
14/12/2013	4:52	Cloudy	Middle	2.0	21.50	21.50	21.50	8.44	8.44	0.44	32.95	32.95	32.93	77.9	77.8	77.0	5.68	5.67	3.07	6.46	6.37	0.47	4	4.00
16/12/2015	3:57	Fine	Middle	2.0	19.00	19.00	18.95	8.24	8.24	8.26	32.85	32.85	32.86	78.4	78.6	78.6	6.00	6.02	6.02	6.55	6.63	6.66	4	4.50
10/12/2013	3:58	Tille	Middle	2.0	18.90	18.90	10.55	8.28	8.28	0.20	32.86	32.86	32.00	79.0	78.3	70.0	6.05	5.99	0.02	6.66	6.79	0.00	5	4.50
18/12/2015	5:47	Fine	Middle	2.5	15.20	15.20	15.15	8.26	8.26	8.30	32.31	32.31	32.33	74.0	74.7	74.6	5.99	6.06	6.04	5.80	5.91	5.91	5	5.50
10/12/2010	5:48	Tille	Middle	2.5	15.10	15.10	10.10	8.34	8.34	0.00	32.34	32.34	02.00	74.9	74.8	74.0	6.06	6.05	0.04	5.95	5.97	0.01	6	0.00
21/12/2015	9:20	Cloudy	Middle	2.5	19.90	19.90	19.90	8.43	8.43	8.43	32.98	32.98	32.98	86.3	87.5	87.0	6.47	6.53	6.50	7.01	7.00	7.00	5	5.00
21/12/2015	9:22	Cloudy	Middle	2.5	19.90	19.90	19.90	8.43	8.43	0.43	32.98	32.98	32.90	87.2	86.9	67.0	6.51	6.49	0.50	6.98	6.99	7.00	5	5.00
23/12/2015	10:18	Fine	Middle	2.5	20.40	20.40	20.45	8.41	8.41	8.42	32.79	32.79	32.81	82.2	81.3	01.1	6.11	6.05	6.03	5.92	5.65	5.76	6	E E0
23/12/2015	10:20	rine	Middle	2.5	20.50	20.50	20.45	8.42	8.42	0.42	32.82	32.82	32.01	80.7	80.1	81.1	6.00	5.95	0.03	5.70	5.75	5.76	5	5.50
26/12/2015	3:38	Cloudy	Middle	2.0	19.40	19.40	19.40	8.09	8.09	0 11	31.85	31.85	31.86	73.3	73.5	72.4	5.58	5.60	5.59	11.40	11.38	44 27	4	4.50
20/12/2015	3:39	Cloudy	Middle	2.0	19.40	19.40	19.40	8.13	8.13	8.11	31.86	31.86	31.00	73.6	73.3	73.4	5.61	5.58	5.59	11.35	11.33	<u>11.37</u>	5	4.50



Water Monitoring Result at P1 - HKCEC Phase I Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/11/2015	4:25	Fine	Middle	2.0	23.00	23.00	22.98	8.39	8.39	8.38	31.79	31.79	31.79	75.5	75.8	75.6	5.40	5.42	5.40	4.88	4.91	4.94	4	5.00
	4:26		Middle	2.0	22.90	23.00		8.36	8.36		31.78	31.78		75.6	75.3		5.41	5.38		4.97	4.99		6	
2/12/2015	4:45	Cloudy	Middle	2.5	23.20	23.20	23.20	8.38	8.38	8.39	32.39	32.39	32.40	76.4	76.8	76.2	5.41	5.44	5.40	5.79	5.81	5.78	4	3.50
	4:46		Middle	2.5	23.20	23.20		8.39	8.39		32.40	32.40		76.1	75.6	_	5.39	5.36		5.77	5.73		3	
4/12/2015	4:25	Cloudy	Middle	2.5	21.20	21.20	21.20	8.50	8.50	8.50	32.82	32.82	32.82	74.2	74.4	75.1	5.44	5.46	5.51	4.35	4.50	4.49	4	3.50
	4:26	,	Middle	2.5	21.20	21.20		8.50	8.50		32.82	32.82		75.4	76.5		5.53	5.62		4.39	4.71		3	
7/12/2015	9:41	Fine	Middle	2.5	21.10	21.20	21.13	8.41	8.41	8.43	32.94	32.94	32.95	76.4	74.9	74.5	5.60	5.49	5.46	6.42	6.36	6.38	4	4.50
	9:43		Middle	2.5	21.10	21.10	20	8.45	8.45	0.10	32.95	32.95	02.00	73.2	73.5		5.36	5.39	0.10	6.33	6.40	0.00	5	
9/12/2015	2:43	Cloudy	Middle	2.0	20.50	20.50	20.45	8.47	8.47	8.48	33.06	33.06	33.07	74.9	75.9	75.4	5.57	5.64	5.63	3.48	3.54	3.56	3	3.00
9/12/2015	2:44	Cloudy	Middle	2.0	20.40	20.40	20.45	8.48	8.48	0.40	33.07	33.07	33.07	75.5	75.1	75.4	5.61	5.68	5.03	3.59	3.63	3.50	3	3.00
42/42/2045	3:35	Claudy	Middle	2.0	21.10	21.10	21.05	8.14	8.14	8.18	32.77	32.77	32.77	75.5	76.3	75.8	5.56	5.61	5.58	6.77	6.80	6.80	<2	<2
12/12/2015	3:36	Cloudy	Middle	2.0	21.00	21.00	21.05	8.22	8.20	8.18	32.77	32.78	32.77	76.0	75.5	75.8	5.57	5.56	5.58	6.83	6.81	6.80	<2	<2
14/12/2015	4:30	Cloudy	Middle	2.0	21.30	21.30	21.30	8.18	8.18	8.23	32.32	32.32	32.35	71.9	72.7	72.5	5.28	5.34	5.33	4.50	4.43	4.51	4	4.00
14/12/2015	4:31	Cloudy	Middle	2.0	21.30	21.30	21.30	8.28	8.28	0.23	32.38	32.38	32.33	72.9	72.6	72.5	5.35	5.33	5.33	4.54	4.58	4.51	4	4.00
16/12/2015	3:31	Fine	Middle	2.0	18.80	18.80	18.75	8.44	8.44	8.45	33.04	33.04	33.05	77.4	77.5	77.4	5.93	5.94	5.94	7.48	7.50	7.40	4	4.00
10/12/2015	3:32	rille	Middle	2.0	18.70	18.70	10.75	8.46	8.45	0.45	33.05	33.05	33.03	77.5	77.3	77.4	5.94	5.93	5.94	7.32	7.30	7.40	4	4.00
18/12/2015	5:23	Fine	Middle	2.5	15.90	15.90	15.85	8.45	8.45	8.47	33.11	33.11	33.11	75.7	76.7	77.0	6.15	6.21	6.24	6.51	6.75	6.66	5	5.50
10/12/2013	5:24	Tille	Middle	2.5	15.80	15.80	15.65	8.49	8.49	0.47	33.11	33.11	33.11	77.7	78.0	77.0	6.29	6.32	0.24	6.70	6.66	0.00	6	3.30
21/12/2015	9:00	Cloudy	Middle	2.5	19.80	19.80	19.80	8.39	8.39	8.40	32.99	32.99	32.99	91.0	91.9	91.6	6.84	6.90	6.88	6.18	6.16	6.16	4	4.00
21/12/2015	9:02	Cloudy	Middle	2.5	19.80	19.80	19.60	8.41	8.41	0.40	32.99	32.99	32.99	91.3	92.2	91.0	6.86	6.93	0.00	6.15	6.14	0.10	4	4.00
22/42/2045	10:02	Ei	Middle	2.5	20.70	20.70	20.80	8.33	8.33	0.05	32.89	32.89	32.85	77.7	77.1	76.7	5.74	5.70	E 74	7.39	7.42	7.00	7	6.00
23/12/2015	10:04	Fine	Middle	2.5	20.90	20.90	20.00	8.36	8.36	8.35	32.80	32.80	32.00	77.3	74.8	/0./	5.71	5.67	5.71	7.38	7.36	7.39	5	6.00
26/12/2015	3:18	Cloudy	Middle	2.0	19.20	19.20	19.20	8.33	8.33	8.35	32.48	32.48	32.48	74.7	75.1	74.8	5.69	5.72	F 70	6.97	7.21	7.10	5	6.00
20/12/2015	3:19	Cloudy	Middle	2.0	19.20	19.20	19.20	8.36	8.36	6.35	32.49	32.48	32.40	74.6	74.6	/4.0	5.70	5.68	5.70	7.31	7.25	7.19	7	6.00



Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspende	
		Condition	r	n	Va	ılue	Average	Va	lue	Average	Va	ılue	Average	Va	ılue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	4:32	Fine	Middle	2.0	23.00	23.00	22.98	8.42	8.42	8.42	31.96	31.96	31.97	77.2	77.4	77.4	5.52	5.63	5.61	5.61	5.57	5.54	4	4.00
	4:33	0	Middle	2.0	22.90	23.00	22.00	8.42	8.42	0.12	31.97	31.97	01.01	77.4	77.7		5.63	5.66	0.01	5.50	5.48	0.01	4	
2/12/2015	4:52	Cloudy	Middle	2.5	23.20	23.20	23.20	8.42	8.42	8.42	32.41	32.41	32.42	72.4	73.9	73.1	5.13	5.24	5.18	4.69	4.65	4.59	3	3.00
2 12/2010	4:53	o.ouu,	Middle	2.5	23.20	23.20	20.20	8.42	8.42	0.12	32.42	32.42	02.12	73.1	72.9		5.18	5.17	0.10	4.53	4.50		3	0.00
4/12/2015	4:31	Cloudy	Middle	2.5	21.30	21.30	21.30	8.47	8.47	8.47	32.85	32.85	32.85	77.0	77.5	77.3	5.64	5.68	5.66	3.84	3.86	3.85	2	2.50
471272010	4:32	Cloudy	Middle	2.5	21.30	21.30	21.00	8.47	8.47	0.41	32.85	32.85	02.00	77.1	77.6	77.0	5.64	5.68	0.00	3.90	3.81	0.00	3	2.00
7/12/2015	9:45	Fine	Middle	2.5	21.10	21.10	21.10	8.46	8.46	8.47	33.09	33.09	33.09	78.0	76.1	75.7	5.69	5.58	5.55	6.11	6.03	5.75	4	5.00
771272010	9:47	Tille	Middle	2.5	21.10	21.10	21.10	8.47	8.47	0.41	33.09	33.09	00.00	75.0	73.8	70.7	5.50	5.41	0.00	5.47	5.40	0.70	6	0.00
9/12/2015	2:48	Cloudy	Middle	2.0	20.50	20.50	20.45	8.51	8.51	8.52	32.73	32.73	32.73	76.6	75.5	75.8	5.69	5.62	5.63	3.62	3.60	3.64	2	2.00
9/12/2013	2:49	Cloudy	Middle	2.0	20.40	20.40	20.43	8.52	8.52	0.52	32.73	32.73	32.73	75.2	75.7	75.0	5.59	5.63	3.03	3.65	3.69	3.04	2	2.00
12/12/2015	3:38	Cloudy	Middle	2.0	21.10	21.00	21.08	8.45	8.45	8.45	33.05	33.05	33.05	73.3	73.6	73.5	5.38	5.40	5.39	4.89	4.66	4.61	2	2.00
12/12/2013	3:39	Cloudy	Middle	2.0	21.10	21.10	21.00	8.45	8.45	0.43	33.05	33.05	33.03	73.7	73.2	75.5	5.41	5.37	3.39	4.48	4.40	4.01	<2	2.00
14/12/2015	4:35	Cloudy	Middle	2.0	21.40	21.40	21.40	8.39	8.39	8.40	32.92	32.92	32.93	76.2	76.0	75.9	5.60	5.56	5.56	5.86	5.92	5.93	4	5.00
14/12/2013	4:36	Cloudy	Middle	2.0	21.40	21.40	21.40	8.40	8.40	0.40	32.92	32.94	32.93	75.9	75.6	75.5	5.55	5.54	3.30	5.97	5.95	3.93	6	3.00
16/12/2015	3:36	Fine	Middle	2.0	18.80	18.80	18.80	8.49	8.49	8.49	33.10	33.10	33.10	78.2	78.3	78.1	5.98	5.99	5.98	6.53	6.56	6.57	5	4.50
10/12/2013	3:37	Tille	Middle	2.0	18.80	18.80	10.00	8.49	8.49	0.49	33.10	33.10	33.10	78.0	77.8	70.1	5.97	5.96	3.90	6.59	6.61	0.37	4	4.50
18/12/2015	5:28	Fine	Middle	2.5	16.30	16.30	16.20	8.51	8.51	8.52	33.09	33.09	33.10	76.9	76.9	77.1	6.18	6.19	6.20	5.10	5.12	5.34	5	5.50
10/12/2013	5:29	Tille	Middle	2.5	16.10	16.10	10.20	8.53	8.53	0.52	33.10	33.10	33.10	77.2	77.2	77.1	6.22	6.22	0.20	5.56	5.58	3.34	6	3.30
21/12/2015	9:05	Cloudy	Middle	2.5	19.80	19.80	19.80	8.42	8.42	8.42	32.99	32.99	33.00	89.8	89.9	89.2	6.74	6.75	6.70	6.96	6.94	6.94	5	4.50
21/12/2013	9:07	Cloudy	Middle	2.5	19.80	19.80	19.00	8.42	8.42	0.42	33.00	33.00	33.00	89.1	87.9	09.2	6.69	6.60	0.70	6.93	6.93	0.94	4	4.50
23/12/2015	10:06	Fine	Middle	2.5	20.50	20.50	20.55	8.38	8.38	8.39	32.83	32.83	32.83	81.5	80.0	79.1	6.05	5.93	5.87	5.54	5.58	5.52	4	5.00
20/12/2010	10:08	1 1116	Middle	2.5	20.60	20.60	20.55	8.39	8.39	0.55	32.82	32.82	32.03	78.3	76.7	79.1	5.81	5.69	5.67	5.47	5.47	J.J2	6	3.00
26/12/2015	3:22	Cloudy	Middle	2.0	19.20	19.20	19.20	8.38	8.38	8.39	32.53	32.53	32.54	76.4	76.5	76.2	5.82	5.82	5.80	4.62	4.56	4.61	4	5.00
20/12/2015	3:23	Cloudy	Middle	2.0	19.20	19.20	19.20	8.40	8.40	0.39	32.54	32.54	32.34	76.0	75.7	/0.2	5.79	5.76	5.60	4.66	4.59	4.01	6	5.00



Water Monitoring Result at P4 - SOC Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/11/2015	4:41	Fine	Middle	2.0	22.80	22.80	22.80	8.43	8.43	8.43	31.97	31.97	31.98	78.9	79.6	79.5	5.65	5.70	5.70	4.86	4.90	4.94	3	3.50
	4:42		Middle	2.0	22.80	22.80		8.43	8.43		31.99	31.99		79.9	79.7		5.72	5.71		4.98	5.00		4	
2/12/2015	4:57	Cloudy	Middle	2.5	23.10	23.10	23.10	8.43	8.43	8.43	32.43	32.43	32.43	76.8	75.8	76.7	5.46	5.38	5.44	4.60	4.62	4.46	3	3.50
	4:58		Middle	2.5	23.10	23.10		8.43	8.43		32.43	32.43		77.0	77.1	_	5.46	5.47		4.32	4.30		4	
4/12/2015	4:42	Cloudy	Middle	2.5	21.20	21.20	21.20	8.44	8.44	8.44	32.74	32.74	32.74	74.1	74.6	74.4	5.43	5.48	5.46	4.01	4.10	4.05	4	3.50
	4:43	,	Middle	2.5	21.20	21.20		8.44	8.44		32.74	32.74		74.3	74.6		5.45	5.48		4.06	4.02		3	
7/12/2015	9:49	Fine	Middle	2.5	21.20	21.20	21.20	8.47	8.47	8.47	33.10	33.10	33.10	76.3	74.8	75.0	5.58	5.47	5.48	5.98	5.99	5.99	5	5.00
	9:51		Middle	2.5	21.20	21.20	21.20	8.47	8.47	0	33.10	33.10	00.10	74.5	74.3	7 0.0	5.45	5.43	0.10	6.00	6.00	0.00	5	0.00
9/12/2015	2:51	Cloudy	Middle	2.0	20.40	20.40	20.35	8.53	8.53	8.53	32.60	32.60	32.60	77.0	76.9	77.2	5.74	5.73	5.76	4.03	4.07	4.05	3	3.00
9/12/2015	2:52	Cloudy	Middle	2.0	20.30	20.30	20.35	8.53	8.53	0.53	32.60	32.60	32.00	77.3	77.7	11.2	5.77	5.80	5.76	4.09	4.00	4.05	3	3.00
12/12/2015	3:41	Cloudy	Middle	2.0	21.10	21.10	21.10	8.47	8.47	8.47	33.06	33.06	33.06	80.2	80.5	80.1	5.89	5.91	5.89	6.78	6.80	6.77	<2	<2
12/12/2015	3:42	Cloudy	Middle	2.0	21.10	21.10	21.10	8.47	8.47	0.47	33.06	33.06	33.00	80.1.	79.5	60.1	5.89	5.85	5.09	6.76	6.73	0.77	<2	~2
14/12/2015	4:40	Cloudy	Middle	2.0	21.30	21.30	21.30	8.48	8.47	8.47	32.95	32.95	32.95	80.2	80.5	80.5	5.86	5.89	5.89	5.84	5.80	5.76	5	4.50
14/12/2015	4:41	Cloudy	Middle	2.0	21.30	21.30	21.30	8.47	8.47	0.47	32.95	32.95	32.93	80.4	80.9	60.5	5.88	5.92	5.09	5.71	5.69	5.70	4	4.50
16/12/2015	3:44	Fine	Middle	2.0	18.80	18.80	18.80	8.50	8.50	8.51	33.12	33.12	33.12	82.4	82.3	82.0	6.31	6.30	6.28	5.69	5.74	5.65	4	4.50
10/12/2013	3:45	Tille	Middle	2.0	18.80	18.80	10.00	8.51	8.51	0.51	33.12	33.12	33.12	82.0	81.2	02.0	6.28	6.22	0.20	5.57	5.61	3.03	5	4.30
18/12/2015	5:32	Fine	Middle	2.5	16.30	16.30	16.20	8.54	8.54	8.54	32.91	32.93	32.93	80.5	81.7	81.5	6.49	6.59	6.58	6.39	6.42	6.46	4	5.00
10/12/2010	5:33	Tille	Middle	2.5	16.10	16.10	10.20	8.54	8.54	0.04	32.93	32.93	02.00	81.6	82.1	01.0	6.59	6.63	0.00	6.50	6.54	0.40	6	0.00
21/12/2015	9:10	Cloudy	Middle	2.5	19.90	19.90	19.88	8.42	8.42	8.42	32.98	32.98	32.99	87.0	87.5	87.0	6.52	6.56	6.52	8.02	8.01	8.00	6	6.00
21/12/2015	9:12	Cloudy	Middle	2.5	19.90	19.80	19.00	8.41	8.41	0.42	32.99	32.99	32.99	87.2	86.1	67.0	6.54	6.46	0.52	8.00	7.97	6.00	6	0.00
22/12/2015	10:10	Fino	Middle	2.5	20.50	20.50	20.55	8.40	8.40	8.40	32.80	32.80	32.81	85.0	82.6	81.8	6.31	6.12	6.07	6.73	6.71	6.01	8	7.00
23/12/2015	10:12	Fine	Middle	2.5	20.60	20.60	20.55	8.40	8.40	0.40	32.81	32.81	32.01	80.1	79.5	01.0	5.94	5.90	0.07	6.89	6.90	6.81	6	7.00
26/12/2015	3:27	Cloudy	Middle	2.0	19.10	19.10	10.10	8.41	8.41	8.41	32.53	32.53	32.53	77.7	78.3	70 /	5.93	5.98	E 00	5.46	5.40	E 42	6	F 00
20/12/2015	3:28	Cloudy	Middle	2.0	19.10	19.10	19.10	8.41	8.41	0.41	32.53	32.53	32.53	78.7	78.8	78.4	6.01	6.01	5.98	5.36	5.45	5.42	4	5.00



Water Monitoring Result at P5 - WCT / RT / IT Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/11/2015	4:50	Fine	Middle	2.0	23.00	23.00	22.95	8.43	8.43	8.44	31.98	31.98	31.98	74.8	76.2	75.9	5.37	5.46	5.44	5.52	5.50	5.51	4	4.00
	4:51		Middle	2.0	22.90	22.90		8.44	8.44		31.98	31.98		76.2	76.4		5.46	5.46		5.54	5.46		4	
2/12/2015	5:06	Cloudy	Middle	2.5	23.00	23.00	23.00	8.44	8.44	8.44	32.38	32.38	32.41	72.9	74.7	73.8	5.26	5.31	5.28	5.17	5.15	5.16	4	4.00
2/12/2010	5:07	Oloudy	Middle	2.5	23.00	23.00	20.00	8.44	8.44	0.44	32.43	32.43	02.41	73.9	73.6	70.0	5.28	5.27	0.20	5.10	5.20	0.10	4	4.00
4/12/2015	4:55	Cloudy	Middle	2.5	21.50	21.50	21.50	8.49	8.49	8.49	32.82	32.82	32.83	78.7	78.4	78.7	5.76	5.72	5.75	4.40	4.42	4.37	3	3.50
4/12/2013	4:56	Cloudy	Middle	2.5	21.50	21.50	21.50	8.49	8.49	0.49	32.83	32.83	32.03	78.7	78.8	70.7	5.75	5.76	5.75	4.36	4.31	4.57	4	3.30
7/12/2015	9:53	Fine	Middle	2.5	21.60	21.60	21.55	8.47	8.47	8.48	33.16	33.16	33.17	78.0	77.1	77.0	5.65	5.60	5.59	19.99	18.90	19.86	20	19.50
7/12/2013	9:55	Tille	Middle	2.5	21.50	21.50	21.55	8.48	8.48	0.40	33.17	33.17	33.17	76.6	76.3	77.0	5.57	5.54	5.59	20.50	20.04	19.00	19	13.30
9/12/2015	2:53	Cloudy	Middle	2.0	20.50	20.50	20.45	8.53	8.53	8.53	32.66	32.66	32.67	77.3	77.6	77.5	5.75	5.79	5.77	3.83	3.67	3.73	<2	<2
9/12/2015	2:54	Cloudy	Middle	2.0	20.40	20.40	20.45	8.53	8.53	0.53	32.67	32.67	32.07	77.5	77.4	77.5	5.77	5.76	5.77	3.70	3.72	3.73	<2	\ \2
40/40/0045	3:45	Olevedia	Middle	2.0	21.10	21.10	21.10	8.48	8.48	8.48	33.07	33.07	33.07	78.4	78.1	78.7	5.75	5.73	5.77	5.20	5.18	5.44	<2	<2
12/12/2015	3:46	Cloudy	Middle	2.0	21.10	21.10	21.10	8.48	8.48	8.48	33.07	33.07	33.07	79.0	79.2	78.7	5.80	5.81	5.77	5.00	5.06	5.11	<2	<2
14/12/2015	4:45	Olevedia	Middle	2.0	21.50	21.50	21.50	8.45	8.45	8.45	32.96	32.96	32.97	74.6	74.9	74.5	5.44	5.46	5.43	5.95	5.92	5.04	6	6.00
14/12/2015	4:46	Cloudy	Middle	2.0	21.50	21.50	21.50	8.45	8.45	8.45	32.97	32.97	32.97	74.3	74.0	74.5	5.42	5.39	5.43	5.69	5.66	5.81	6	6.00
40/40/0045	3:49	Fire	Middle	2.0	18.80	18.80	18.80	8.51	8.51	8.51	33.11	33.11	33.11	78.5	78.9	70.0	6.01	6.04	0.04	4.66	4.64	4.00	4	0.50
16/12/2015	3:50	Fine	Middle	2.0	18.80	18.80	18.80	8.51	8.51	8.51	33.11	33.11	33.11	79.0	78.8	78.8	6.05	6.04	6.04	4.69	4.71	4.68	3	3.50
40/40/0045	5:40	Fire	Middle	2.5	15.60	15.60	15.55	8.55	8.55	8.55	32.90	32.90	20.00	80.0	80.1	00.0	6.54	6.54	0.50	4.61	4.59	4.00	4	4.50
18/12/2015	5:41	Fine	Middle	2.5	15.50	15.50	15.55	8.55	8.55	8.55	32.88	32.88	32.89	79.8	79.9	80.0	6.52	6.53	6.53	4.70	4.80	4.68	5	4.50
04/40/0045	9:15	01 1	Middle	2.5	19.90	19.90	40.00	8.43	8.43	0.40	32.98	32.98	20.00	91.5	91.1	00.0	6.85	6.83	0.00	6.40	6.45	0.44	5	4.50
21/12/2015	9:17	Cloudy	Middle	2.5	19.90	19.90	19.90	8.43	8.43	8.43	32.97	32.97	32.98	90.6	90.5	90.9	6.80	6.79	6.82	6.44	6.45	6.44	4	4.50
	10:14		Middle	2.5	20.50	20.50		8.41	8.41		32.83	32.83		82.1	82.7		6.09	6.14		7.07	7.07		8	
23/12/2015	10:16	Fine	Middle	2.5	20.50	20.50	20.50	8.41	8.41	8.41	32.83	32.83	32.83	81.9	80.7	81.9	6.08	5.99	6.08	7.07	7.07	7.07	7	7.50
	3:33		Middle	2.0	19.20	19.20		8.42	8.42		32.54	32.54		76.9	77.1		5.86	5.87		4.75	4.69		7	
26/12/2015	3:34	Cloudy	Middle	2.0	19.20	19.20	19.20	8.42	8.42	8.42	32.54	32.54	32.54	77.0	77.0	77.0	5.87	5.87	5.87	4.71	4.80	4.74	5	6.00



Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Ebb Tide

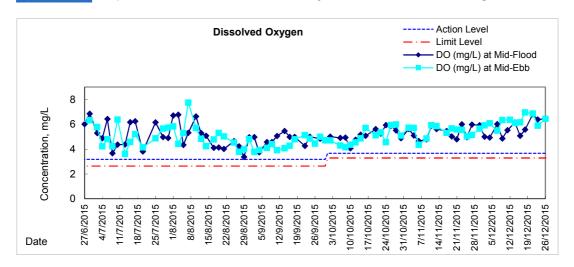
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspend	led Solids
		Ooridition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	3:19	Fine	Middle	3.5	22.90	22.90	22.85	8.26	8.26	8.27	32.33	32.33	32.36	79.0	79.2	79.2	5.65	5.67	5.67	4.71	4.87	4.88	3	3.50
	3:20		Middle	3.5	22.80	22.80		8.28	8.27	5	32.39	32.39		79.4	79.2		5.69	5.67		4.97	4.95		4	
2/12/2015	2:08	Cloudy	Middle	3.5	23.30	23.30	23.30	8.31	8.31	8.33	32.60	32.60	32.61	76.7	77.2	76.8	5.42	5.46	5.44	5.61	5.67	5.74	5	5.00
271272010	2:09	Oloudy	Middle	3.5	23.30	23.30	20.00	8.34	8.34	0.00	32.61	32.61	02.01	77.0	76.4	70.0	5.45	5.41	0.44	5.82	5.85	0.74	5	0.00
4/12/2015	3:30	Cloudy	Middle	3.5	21.40	21.40	21.30	8.24	8.24	8.26	32.62	32.62	32.65	76.7	76.9	76.4	5.52	5.54	5.55	2.66	2.72	2.75	2	2.00
4/12/2013	3:31	Gloudy	Middle	3.5	21.20	21.20	21.50	8.28	8.28	0.20	32.68	32.68	32.03	75.9	76.0	70.4	5.55	5.58	0.00	2.78	2.82	2.75	2	2.00
7/12/2015	10:16	Fine	Middle	3.5	21.70	21.70	21.65	8.42	8.42	8.44	33.05	33.05	33.07	81.8	80.0	79.6	5.94	5.80	5.78	5.91	5.90	5.91	6	6.00
7/12/2013	10:18	Tille	Middle	3.5	21.60	21.60	21.00	8.46	8.46	0.44	33.09	33.09	33.01	78.7	77.8	75.0	5.72	5.65	3.70	5.92	5.91	5.51	6	0.00
9/12/2015	2:00	Cloudy	Middle	3.0	20.50	20.50	20.40	8.36	8.36	8.40	32.74	32.74	32.74	76.1	76.4	76.5	5.66	5.69	5.69	5.03	5.10	4.93	4	3.00
9/12/2013	2:01	Cloudy	Middle	3.0	20.30	20.30	20.40	8.43	8.43	0.40	32.74	32.74	32.74	76.2	77.1	70.5	5.67	5.74	3.09	4.81	4.79	4.93	2	3.00
12/12/2015	3:10	Cloudy	Middle	3.0	20.90	20.90	20.90	8.35	8.35	8.37	32.79	32.79	32.79	77.0	77.9	77.8	5.67	5.76	5.74	5.57	5.35	5.39	<2	<u><2</u>
12/12/2013	3:11	Cloudy	Middle	3.0	20.90	20.90	20.90	8.38	8.38	0.57	32.78	32.78	32.79	78.2	78.0	77.0	5.77	5.75	3.74	5.33	5.30	3.39	<2	<u>≥</u> ∡
14/12/2015	3:50	Cloudy	Middle	2.5	21.30	21.30	21.30	8.36	8.36	8.36	31.78	31.78	31.79	70.3	70.4	70.7	5.20	5.20	5.22	3.85	3.87	3.80	3	2.50
14/12/2013	3:51	Cloudy	Middle	2.5	21.30	21.30	21.30	8.36	8.36	0.50	31.79	31.79	31.79	70.8	71.2	70.7	5.22	5.25	5.22	3.75	3.72	3.00	2	2.50
16/12/2015	3:06	Fine	Middle	2.5	18.50	18.50	18.45	8.45	8.45	8.46	32.46	32.46	32.46	75.3	75.3	75.2	5.83	5.83	5.82	7.10	7.13	7.15	<2	<u><2</u>
10/12/2013	3:07	Tille	Middle	2.5	18.40	18.40	10.43	8.46	8.46	0.40	32.46	32.46	32.40	75.0	75.2	75.2	5.80	5.82	3.02	7.15	7.21	7.13	<2	<u>×</u>
18/12/2015	4:45	Fine	Middle	3.5	16.20	16.20	16.20	8.38	8.38	8.39	33.09	33.09	33.10	77.0	76.9	76.7	6.20	6.20	6.18	8.55	8.90	8.78	4	4.00
10/12/2013	4:46	Tille	Middle	3.5	16.20	16.20	10.20	8.39	8.39	0.55	33.10	33.10	33.10	76.7	76.0	70.7	6.17	6.13	0.10	8.85	8.80	0.70	4	4.00
21/12/2015	9:45	Cloudy	Middle	3.5	20.00	20.00	20.00	8.40	8.40	8.41	32.94	32.94	32.94	92.5	92.7	91.9	6.93	6.94	6.88	5.00	4.98	5.02	3	3.00
21/12/2013	9:47	Cloudy	Middle	3.5	20.00	20.00	20.00	8.42	8.42	0.41	32.94	32.94	32.94	91.3	91.1	91.9	6.84	6.82	0.00	5.04	5.05	3.02	3	3.00
23/12/2015	10:38	Fine	Middle	3.5	20.60	20.60	20.65	8.35	8.35	8.37	32.83	32.83	32.82	88.4	86.4	85.9	6.54	6.40	6.36	6.29	6.29	6.29	4	4.50
20/12/2010	10:40	i iiic	Middle	3.5	20.70	20.70	20.03	8.39	8.39	0.57	32.81	32.81	JZ.UZ	84.8	83.9	6.50	6.28	6.21	0.50	6.29	6.29	0.23	5	4.50
26/12/2015	2:47	Cloudy	Middle	3.0	19.30	19.30	19.30	8.25	8.25	8.26	31.39	31.39	31.39	71.0	71.2	71.4	5.43	5.47	5.47	3.09	3.11	3.07	5	4.50
20/12/2015	2:48	Cloudy	Middle	3.0	19.30	19.30	19.30	8.26	8.26	0.20	31.39	31.39	31.38	71.8	71.7	/ 1.4	5.49	5.49	5.47	3.05	3.01	3.07	4	4.50

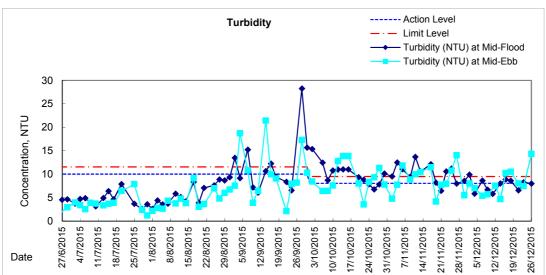


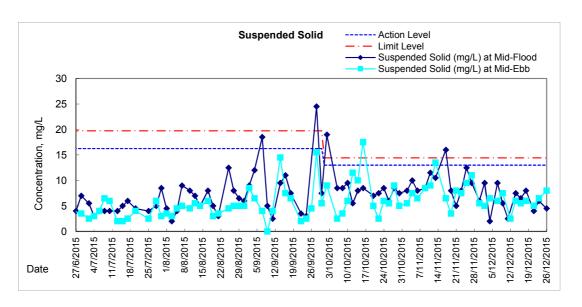
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/11/2015	5:25	Fine	Middle	2.5	22.50	22.50	22.45	8.40	8.40	8.40	31.65	31.65	31.65	77.9	78.8	78.2	5.63	5.69	5.65	5.51	5.53	5.48	6	5.50
	5:26		Middle	2.5	22.40	22.40	22.10	8.40	8.40	0.10	31.65	31.65	01.00	78.5	77.4	7 0.2	5.67	5.59	0.00	5.48	5.39	0.10	5	0.00
2/12/2015	2:58	Cloudy	Middle	3.0	23.20	23.20	23.20	8.14	8.14	8.16	32.16	32.16	32.17	82.6	84.1	83.2	5.87	5.97	5.91	8.02	7.98	7.99	4	5.00
2 12/2010	2:59	5.544	Middle	3.0	23.20	23.20	20.20	8.17	8.17	0.10	32.18	32.18	02	83.6	82.6	00.2	5.93	5.87	0.01	8.00	7.95	7.00	6	0.00
4/12/2015	5:40	Cloudy	Middle	2.5	21.20	21.20	21.20	8.47	8.47	8.47	32.74	32.74	32.74	82.0	82.8	82.8	6.02	6.08	6.08	7.05	7.07	7.04	6	6.50
471272010	5:41	Oloudy	Middle	2.5	21.20	21.20	21.20	8.47	8.47	0.41	32.74	32.74	02.14	83.4	83.0	02.0	6.12	6.09	0.00	7.02	7.00	7.04	7	0.00
7/12/2015	8:38	Fine	Middle	3.5	21.40	21.40	21.30	8.57	8.56	8.56	33.34	33.34	33.35	74.5	75.0	75.1	5.44	5.48	5.49	5.32	5.39	5.38	6	6.00
771272010	8:40	Tille	Middle	3.5	21.20	21.20	21.00	8.55	8.55	0.00	33.35	33.35	00.00	75.6	75.1	70.1	5.53	5.49	0.40	5.47	5.33	0.00	6	0.00
9/12/2015	22:45	Cloudy	Middle	3.0	20.00	20.00	19.98	8.10	8.10	8.12	33.08	33.08	33.10	84.7	84.7	84.3	6.36	6.35	6.33	5.70	5.78	5.70	7	7.50
9/12/2013	22:46	Cloudy	Middle	3.0	19.90	20.00	19.90	8.14	8.14	0.12	33.11	33.11	33.10	84.3	83.5	04.5	6.33	6.28	0.33	5.66	5.64	3.70	8	7.50
12/12/2015	0:01	Cloudy	Middle	2.5	20.80	20.80	20.75	8.20	8.20	8.21	33.47	33.47	33.47	85.7	86.1	86.4	6.31	6.34	6.36	7.59	7.55	7.54	3	2.50
12/12/2013	0:02	Cloudy	Middle	2.5	20.70	20.70	20.73	8.22	8.22	0.21	33.48	33.48	33.47	86.5	87.2	00.4	6.37	6.43	0.30	7.53	7.47	7.54	2	2.30
14/12/2015	1:02	Cloudy	Middle	2.5	21.10	21.10	21.05	8.25	8.25	8.27	32.74	32.74	32.75	82.7	83.7	82.9	6.09	6.15	6.10	4.89	4.61	4.66	6	6.00
14/12/2013	1:03	Cloudy	Middle	2.5	21.00	21.00	21.03	8.28	8.28	0.27	32.75	32.75	32.73	82.5	82.5	02.9	6.07	6.08	0.10	4.58	4.55	4.00	6	0.00
16/12/2015	4:20	Fine	Middle	2.5	18.70	18.70	18.70	8.27	8.27	8.28	32.96	32.96	32.97	80.8	79.4	79.9	6.21	6.11	6.15	10.27	10.29	10.23	5	5.50
10/12/2013	4:21	Tille	Middle	2.5	18.70	18.70	10.70	8.29	8.29	0.20	32.97	32.97	32.91	80.0	79.4	79.9	6.15	6.11	0.15	10.24	10.11	10.23	6	3.30
18/12/2015	6:00	Fine	Middle	3.0	15.70	15.70	15.60	8.15	8.15	8.18	33.05	33.05	33.05	85.4	86.5	85.2	6.97	7.07	6.96	10.55	10.50	10.51	7	6.00
10/12/2013	6:01	Tille	Middle	3.0	15.50	15.50	13.00	8.20	8.20	0.10	33.05	33.05	33.03	84.5	84.2	05.2	6.90	6.88	0.90	10.48	10.52	10.51	5	0.00
21/12/2015	8:00	Cloudy	Middle	3.5	19.70	19.70	19.65	8.22	8.22	8.27	32.96	32.96	32.96	91.5	90.5	91.0	6.90	6.83	6.86	8.01	8.01	8.01	5	5.00
21/12/2013	8:02	Cloudy	Middle	3.5	19.60	19.60	19.05	8.31	8.31	0.27	32.96	32.96	32.90	90.7	91.2	91.0	6.84	6.88	0.00	8.01	8.00	0.01	5	3.00
23/12/2015	9:20	Fine	Middle	3.5	20.80	20.80	20.80	8.29	8.29	8.31	32.88	32.88	32.88	80.4	80.2	79.7	5.93	5.92	5.88	7.42	7.43	7.44	7	6.50
20/12/2010	9:22	i iiie	Middle	3.5	20.80	20.80	20.00	8.32	8.32	0.51	32.87	32.87	32.00	79.6	78.7	19.1	5.87	5.81	5.00	7.44	7.45	7.44	6	0.50
26/12/2015	0:02	Cloudy	Middle	2.5	19.20	19.20	19.20	7.98	7.98	7.99	32.44	32.44	32.46	84.3	85.3	84.5	6.42	6.50	6.44	14.29	14.32	14.32	8	8.00
20/12/2015	0:03	Cloudy	Middle	2.5	19.20	19.20	19.20	8.02	7.99	7.88	32.47	32.47	32.40	84.9	83.4	04.5	6.47	6.36	0.44	14.36	14.30	14.34	8	6.00

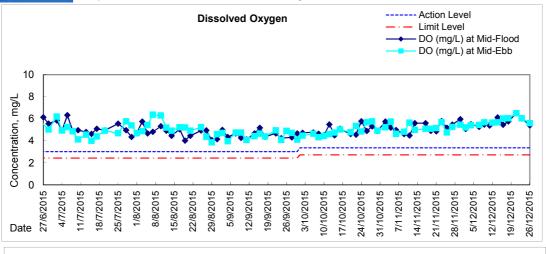
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

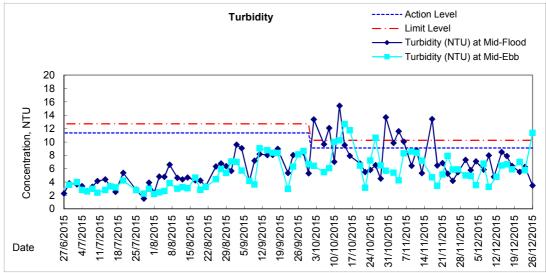


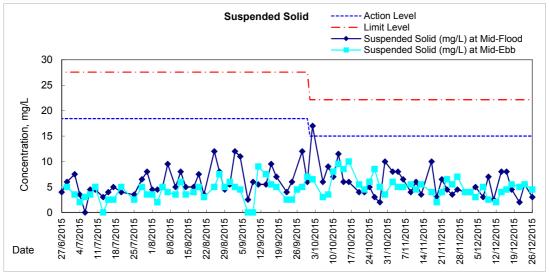




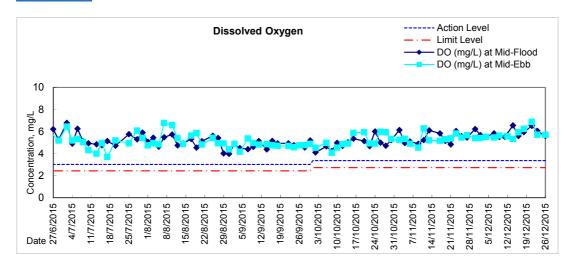
Graphic Presentation of Water Quality Result of C1 - HKCEC

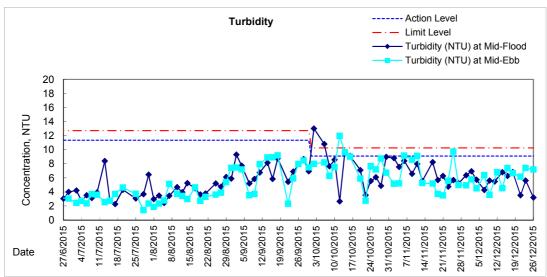


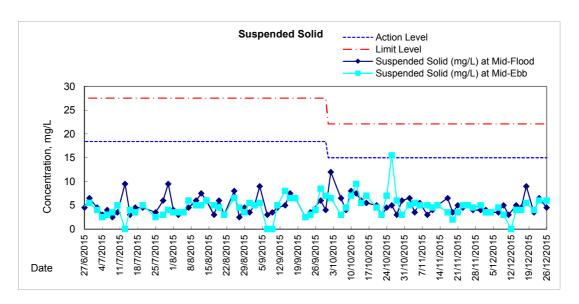




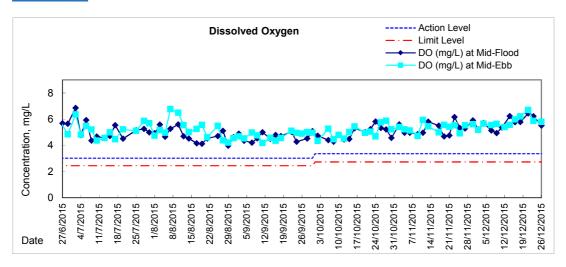
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

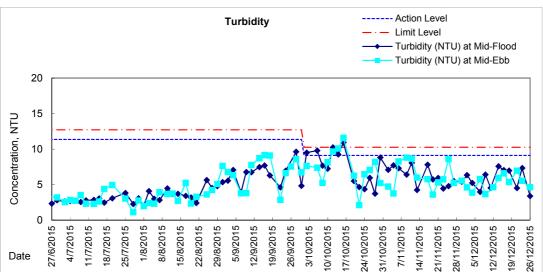


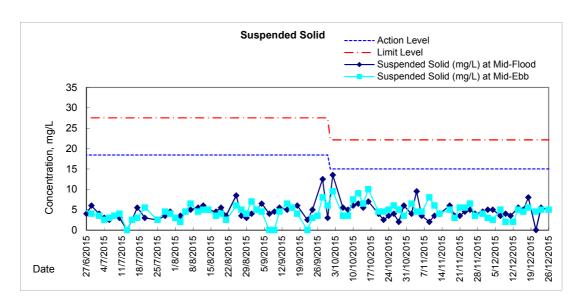




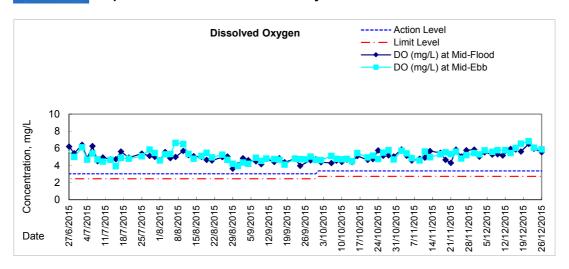


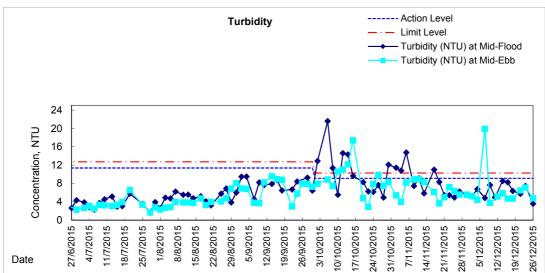


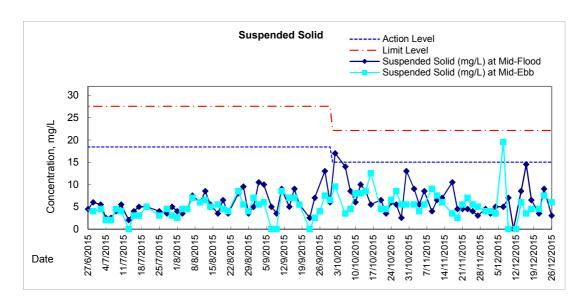




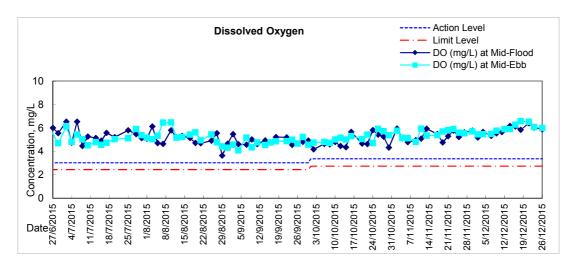
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

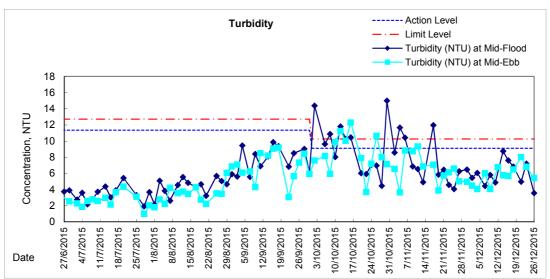


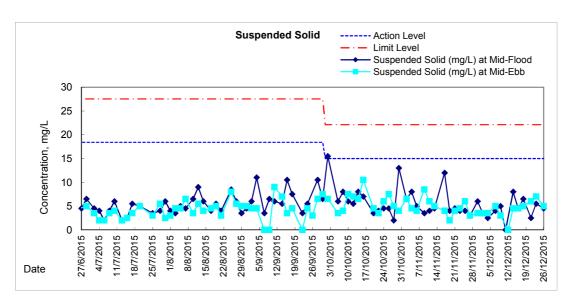




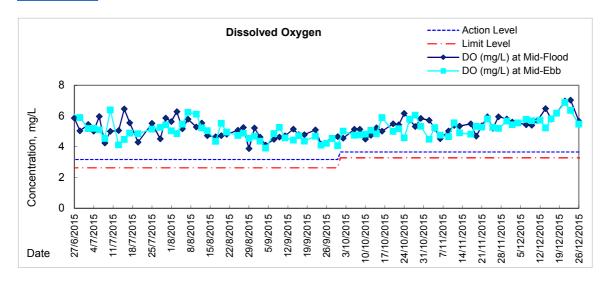
Graphic Presentation of Water Quality Result of P4 - SOC

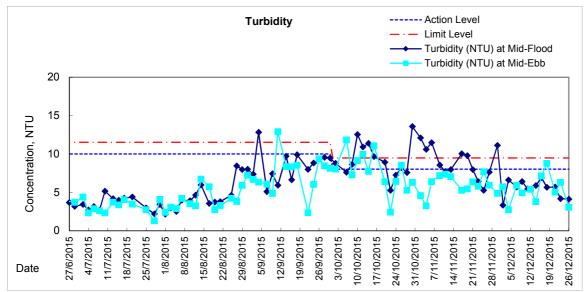


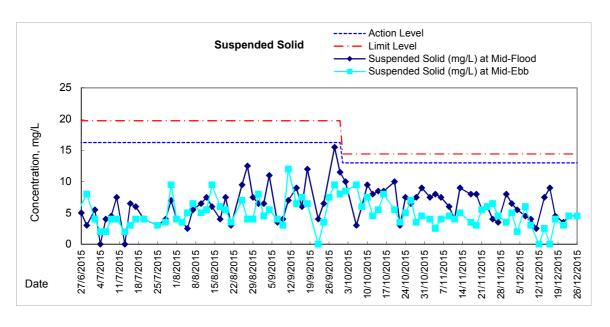




Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

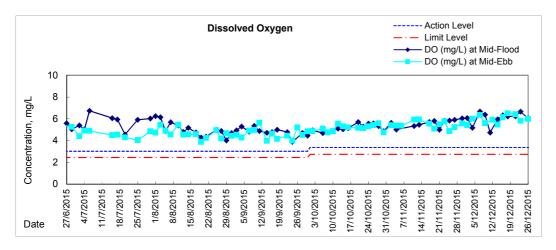


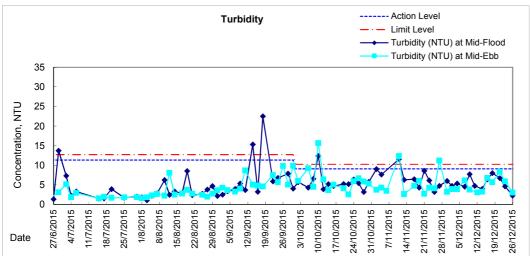


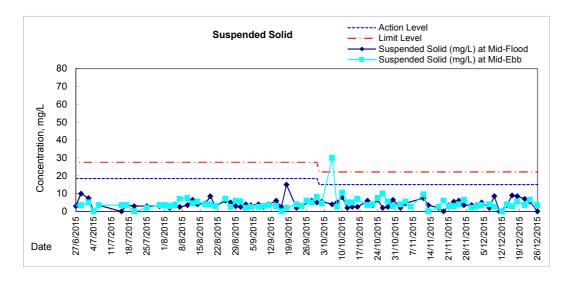




Graphic Presentation of Water Quality Result of C7 - Windsor House









Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

	- WIIG-I																		
Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salinit	у	D	O Satur	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2015	12:00	Fine	Middle	1.5	25.40	25.40	25.4	8.27	8.27	8.3	31.34	31.34	31.3	84.9	82.7	83.8	5.94	5.78	5.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2015	16:15	Fine	Middle	1.5	24.40	24.40	24.4	8.28	8.28	8.3	30.78	30.78	30.8	82.3	82.5	82.4	5.77	5.78	5.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2015	14:59	Fine	Middle	1.5	23.20	23.20	23.2	8.33	8.33	8.3	31.10	31.10	31.1	77.0	75.1	76.1	5.49	5.37	5.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:50		Surface	1.0	22.60	22.60	22.6	8.45	8.45	8.5	31.04	31.04	31.0	82.3	82.5	82.4	5.95	5.96	5.96
7/12/2015	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:52		Bottom	3.0	22.40	22.40	22.4	8.49	8.49	8.5	26.97	26.97	27.0	90.2	90.8	90.5	6.70	6.78	6.74
	17:15		Surface	1.0	21.20	21.20	21.2	8.51	8.51	8.5	26.22	26.22	26.2	83.7	83.8	83.8	6.38	6.39	6.39
9/12/2015	-	Rainy	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:17		Bottom	3.0	21.10	21.10	21.1	8.48	8.48	8.5	28.80	28.80	28.8	84.0	83.7	83.9	6.26	6.24	6.25
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2015	14:40	Fine	Middle	1.5	22.60	22.60	22.6	8.33	8.33	8.3	31.90	31.90	31.9	90.9	90.8	90.9	6.52	6.51	6.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/12/2015	10:20	Cloudy	Middle	1.5	21.90	21.90	21.9	8.25	8.25	8.3	31.64	31.64	31.6	86.2	85.5	85.9	6.26	6.23	6.25
	-	l	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Surface	1.0	20.40	20.40	20.4	8.36	8.36	8.4	31.78	31.78	31.8	80.4	81.0	80.7	6.03	6.08	6.06
16/12/2015	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:22		Bottom	3.0	20.50	20.80	20.7	8.37	8.37	8.4	31.93	31.93	31.9	88.6	88.1	88.4	6.56	6.54	6.55
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2015	15:48	Fine	Middle	1.0	20.10	20.10	20.1	8.28	8.28	8.3	32.19	32.19	32.2	87.5	85.3	86.4	6.57	6.41	6.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2015	14:41	Fine	Middle	1.0	20.60	20.60	20.6	8.21	8.21	8.2	31.69	31.69	31.7	83.8	82.4	83.1	6.25	6.14	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	15:35		Surface	1.0	21.00	21.00	21.0	8.32	8.32	8.3	31.03	31.03	31.0	79.2	79.9	79.6	5.88	5.93	5.91
23/12/2015	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:37		Bottom	3.0	21.00	21.00	21.0	8.33	8.33	8.3	30.98	30.98	31.0	79.3	78.7	79.0	5.83	5.78	5.81
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2015	7:00	Cloudy	Middle	1.5	19.50	19.50	19.5	8.26	8.26	8.3	29.16	29.16	29.2	55.7	56.1	55.9	4.28	4.30	4.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Flood Tide

		oou nue																	
Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit	У		O Satur	ation		DO mg/L	
		o o na a o n	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2015	11:48	Fine	Middle	1.0	24.20	24.20	24.2	8.30	8.30	8.3	30.99	30.99	31.0	73.1	72.2	72.7	5.14	5.08	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	1	-	1	-	-	-	-	-	1	-	-	-	1	-
2/12/2015	16:00	Fine	Middle	1.0	24.30	24.30	24.3	8.36	8.36	8.4	31.21	31.21	31.2	72.0	72.1	72.1	5.05	5.05	5.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2015	14:48	Fine	Middle	1.0	23.40	23.40	23.4	8.37	8.37	8.4	30.27	30.27	30.3	75.8	75.3	75.6	5.43	5.40	5.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2015	15:25	Fine	Middle	1.0	22.60	22.60	22.6	8.45	8.45	8.5	32.35	32.35	32.4	80.3	80.4	80.4	5.75	5.76	5.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2015	16:42	Rainy	Middle	1.0	21.60	21.60	21.6	8.41	8.41	8.4	29.25	29.25	29.3	78.9	78.9	78.9	5.84	5.84	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2015	18:00	Fine	Middle	1.5	22.20	22.20	22.2	8.40	8.40	8.4	32.25	32.25	32.3	76.6	76.4	76.5	5.54	5.52	5.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/12/2015	10:06	Cloudy	Middle	1.0	22.00	22.20	22.1	8.41	8.41	8.4	22.87	22.87	22.9	54.1	53.8	54.0	4.13	4.10	4.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2015	11:08	Fine	Middle	1.0	20.90	20.90	20.9	8.42	8.42	8.4	26.33	26.33	26.3	56.3	55.5	55.9	4.31	4.25	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2015	11:10	Fine	Middle	1.0	19.80	19.80	19.8	8.38	8.37	8.4	24.11	24.11	24.1	63.8	63.8	63.8	5.06	5.07	5.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2015	14:27	Fine	Middle	1.0	20.90	20.90	20.9	8.44	8.44	8.4	24.13	24.13	24.1	47.0	47.4	47.2	3.64	3.67	<u>3.66</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2015	15:00	Fine	Middle	1.0	21.50	21.50	21.5	8.37	8.37	8.4	24.88	24.88	24.9	58.9	57.1	58.0	4.50	4.36	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2015	8:07	Cloudy	Middle	1.5	19.50	19.50	19.5	8.42	8.42	8.4	23.14	23.15	23.1	59.3	61.5	60.4	4.75	4.94	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Water Monitoring Result at C6 - Excelsior Hotel Mid-Ebb Tide

	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit	v	р	O Satur	ation		DO	
Date		Condition		n		°C	Average	Va	lue	Average	\/a	ppt lue	Average		% ilue	Average	Va	mg/L llue	
	-		Surface	-	- Va	-	- Average	-	-	- Average	-	-	- Average	-	-	- Average	-	-	- Average
30/11/2015	2:15	Fine	Middle	1.5	22.80	22.80	22.8	8.43	8.43	8.4	29.04	29.04	29.0	69.0	68.5	68.8	5.03	4.99	5.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2015	4:30	Cloudy	Middle	1.5	23.20	23.20	23.2	8.19	8.19	8.2	27.62	27.62	27.6	48.8	49.3	49.1	3.56	3.60	3.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/12/2015	3:15	Cloudy	Middle	1.5	21.30	21.30	21.3	8.24	8.24	8.2	26.88	26.88	26.9	48.4	49.6	49.0	3.67	3.77	3.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2015	10:45	Fine	Middle	1.5	22.10	22.10	22.1	8.47	8.47	8.5	29.42	29.42	29.4	80.0	79.6	79.8	5.89	5.86	5.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2015	2:28	Cloudy	Middle	1.0	20.70	20.70	20.7	8.22	8.22	8.2	29.00	29.00	29.0	65.3	66.3	65.8	4.94	5.04	4.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2015	2:15	Cloudy	Middle	1.0	20.80	20.80	20.8	8.17	8.17	8.2	25.35	25.35	25.4	52.0	51.6	51.8	4.00	3.96	3.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44/40/0045	- 2.47	Claudu	Surface	-	21.20	21.20	21.2	- 0.20	- 0.20	- 0.4	- 20.72	- 20.72	- 26.7	- 50.4	- 50.0	-	-	- 4.40	- 442
14/12/2015	2:47	Cloudy	Middle Bottom	1.0	-	-	- 21.2	8.38	8.38	8.4	26.73	26.73	26.7	58.4	58.2	58.3	4.44	4.42	4.43
	_		Surface	-	_	-	-		_	-	_	-	-		-	_	-	-	-
16/12/2015	2:46	Fine	Middle	1.0	18.30	18.30	18.3	8.30	8.30	8.3	25.72	25.76	25.7	49.9	49.6	49.8	4.03	4.00	4.02
10/12/2010	-	Tille	Bottom	-	-	-	-	-	-	-	-	_	-	-					
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2015	4:27	Fine	Middle	1.5	16.50	16.50	16.5	8.37	8.37	8.4	29.52	29.54	29.5	61.3	61.6	61.5	5.00	5.04	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2015	10:20	Cloudy	Middle	1.5	20.30	20.30	20.3	8.33	8.33	8.3	31.41	31.41	31.4	85.9	85.2	85.6	6.55	6.49	6.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2015	11:01	Fine	Middle	1.5	20.90	20.90	20.9	8.25	8.25	8.3	31.75	31.75	31.8	78.1	76.7	77.4	5.79	5.69	5.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2015	1:50	Cloudy	Middle	1.0	19.30	19.30	19.3	8.04	8.04	8.0	25.80	25.80	25.8	43.2	43.7	43.5	3.42	3.96	3.69
	-		Bottom	-	-	-	ï	-	-	-	-	-	-	-	-	-	-	-	-

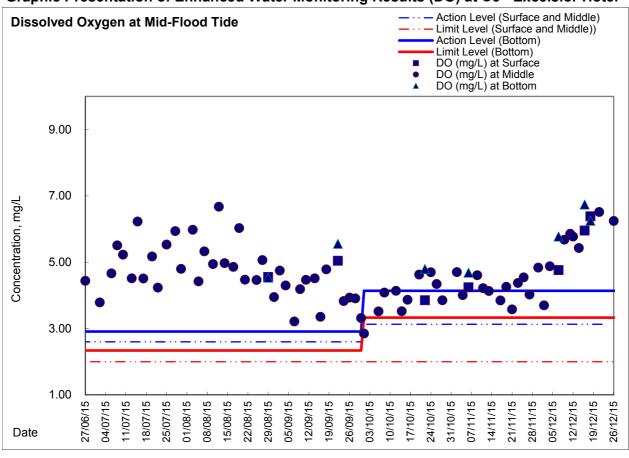


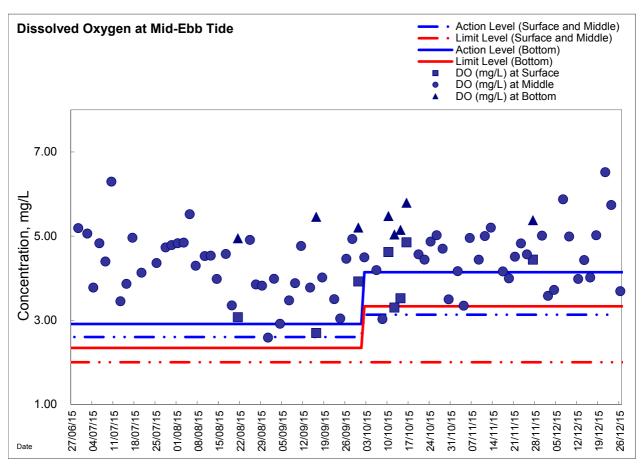
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

Data	Fine	Sampling m Surface Middle Bottom Surface			er Temp °C lue -	Average -	Va	pH - lue	Average	Va	Salinit ppt lue	Average		O Satur % llue	Average	Va	DO mg/L lue	Average
30/11/2015 3:32 - 2/12/2015 2:35 -	Fine	Surface Middle Bottom	1.5	-	-		va	iuc	Average	va	iuc	Average	va	iuc	- Avelaud	va	IUC .	
30/11/2015 3:32 - 2/12/2015 2:35 -	Fine	Middle Bottom		23.00			-	-	_	-	-	_	-	_	-	_	-	
2/12/2015 2:35 -	5		-		23.00	23.0	8.36	8.36	8.4	23.21	23.21	23.2	55.3	55.7	55.5	4.13	4.16	4.15
2/12/2015 2:35		Surface		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	z		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Middle	1.5	23.30	23.30	23.3	8.28	8.28	8.3	19.46	19.46	19.5	56.5	54.9	55.7	4.10	4.04	4.07
_	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	Surface	-	-	-	1	- 1	-	-	1	-	-	-	-	-	- 1	1	-
4/12/2015 3:45	Cloudy	Middle	1.5	21.30	21.30	21.3	8.42	8.42	8.4	20.74	20.74	20.7	57.2	59.1	58.2	4.79	4.83	4.81
-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>	5	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2015 10:25	Fine	Middle	1.0	22.40	22.40	22.4	8.42	8.42	8.4	31.92	31.92	31.9	71.9	71.2	71.6	5.19	5.14	5.17
-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	\$	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2015 2:11	Cloudy	Middle	1.0	20.60	20.60	20.6	8.44	8.44	8.4	16.77	16.77	16.8	61.5	59.5	60.5	4.90	4.81	4.86
-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2015 3:21	Cloudy	Middle	1.0	21.10	21.10	21.1	8.21	8.21	8.2	26.39	26.39	26.4	63.4	62.5	63.0	4.92	4.83	4.88
-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	·	Middle	1.0	21.70	21.70	21.7	8.48	8.48	8.5	18.91	18.91	18.9	52.9	53.2	53.1	4.03	4.09	4.06
-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/12/2015 3:22		Middle	1.0	18.60	18.60	18.6	8.39	8.39	8.4	25.28	25.28	25.3	52.3	51.4	51.9	4.20	4.11	4.16
-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2015 5:05		Surface Middle	1.5	16.50	16.50	16.5	8.36	8.36	8.4	24.55	24.55	24.6	59.5	58.9	59.2	4.46	4.40	4.43
10/12/2013	_	Bottom	1.5	10.50	10.50	10.5	0.30	0.30	0.4	24.33	24.55	24.0	39.3	50.9	39.2	4.40	4.40	4.43
		Surface		-	-	-	-	-	-	-	-		-	-	_	-	-	-
 		Middle	1.5	20.40	20.40	20.4	8.38	8.38	8.4	29.56	29.56	29.6	70.1	69.6	69.9	5.31	5.28	5.30
	·	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2015 10:50		Middle	1.0	21.10	21.10	21.1	8.44	8.44	8.4	23.52	23.52	23.5	55.6	55.0	55.3	4.31	4.26	4.29
-	-	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	5	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2015 2:58	Cloudy	Middle	1.0	19.40	19.40	19.4	8.12	8.12	8.1	23.64	23.64	23.6	49.9	50.9	50.4	3.96	4.06	4.01
-	1	Bottom	-	-	-	-		-	-	-	-	-	-	-	-		-	-



Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel

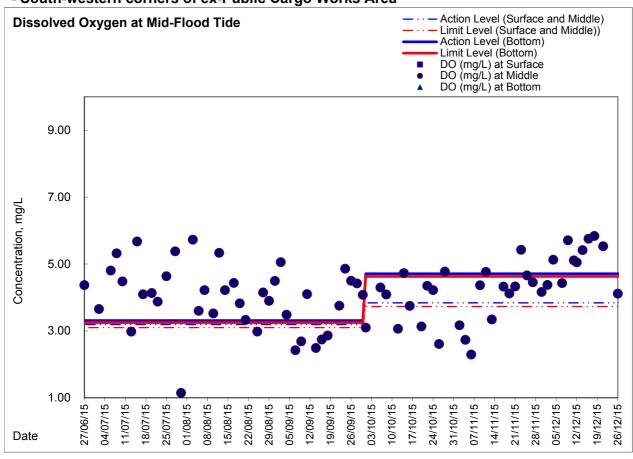


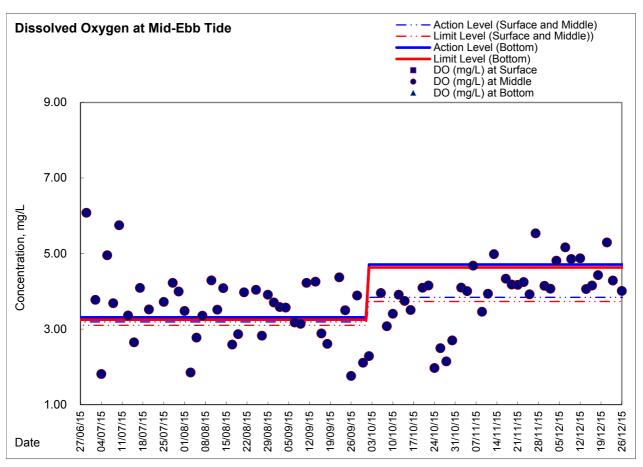




Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW

- South-western corners of ex-Public Cargo Works Area





Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN2a (Hong Kong Electric Centr	re)			
Normal Day 07:00-19:00	3/12/2015 12:31 64	9/12/2015 7:01 61	14/12/2015 13:31 69	19/12/2015 8:01 65	24/12/2015 14:31 63
28/11/2015 7:01 61	3/12/2015 13:01 62	9/12/2015 7:31 61	14/12/2015 14:01 69	19/12/2015 8:31 56	24/12/2015 15:01 54
	3/12/2015 13:31 66	9/12/2015 8:01 63	14/12/2015 14:31 70	19/12/2015 9:01 57	24/12/2015 15:31 59
28/11/2015 7:31 62	3/12/2015 14:01 64	9/12/2015 8:31 65	14/12/2015 15:01 69	19/12/2015 9:31 60	24/12/2015 16:01 67
28/11/2015 8:01 65	3/12/2015 14:31 69	9/12/2015 9:01 60	14/12/2015 15:31 57	19/12/2015 10:01 40	24/12/2015 16:31 66
28/11/2015 8:31 67	3/12/2015 15:01 59	9/12/2015 9:31 56	14/12/2015 16:01 65	19/12/2015 10:31 59	24/12/2015 17:01 64
28/11/2015 9:01 61	3/12/2015 15:31 57	9/12/2015 10:01 63	14/12/2015 16:31 67	19/12/2015 11:01 62	24/12/2015 17:31 63
28/11/2015 9:31 52	3/12/2015 16:01 67	9/12/2015 10:31 61	14/12/2015 17:01 62	19/12/2015 11:31 66	24/12/2015 18:01 63
28/11/2015 10:01 53	3/12/2015 16:31 63	9/12/2015 11:01 65	14/12/2015 17:31 67	19/12/2015 12:01 64	24/12/2015 18:31 63
28/11/2015 10:31 62	3/12/2015 17:01 67	9/12/2015 11:31 65	14/12/2015 18:01 66	19/12/2015 12:31 64	Normal Day 19:00-23:00,
28/11/2015 11:01 64	3/12/2015 17:31 65	9/12/2015 12:01 63	14/12/2015 18:31 64	19/12/2015 13:01 66	
28/11/2015 11:31 66	3/12/2015 18:01 62	9/12/2015 12:31 64	15/12/2015 7:01 61	19/12/2015 13:31 57	Sunday & Holiday
28/11/2015 12:01 63	3/12/2015 18:31 61	9/12/2015 13:01 52	15/12/2015 7:31 61	19/12/2015 14:01 60	07:00-23:00
28/11/2015 12:31 63	4/12/2015 7:01 61	9/12/2015 13:31 65	15/12/2015 8:01 65	19/12/2015 14:31 46	
28/11/2015 13:01 66	4/12/2015 7:31 62	9/12/2015 14:01 64	15/12/2015 8:31 62	19/12/2015 15:01 67	28/11/2015 19:01 36
28/11/2015 13:31 65	4/12/2015 8:01 65	9/12/2015 14:31 65	15/12/2015 9:01 63	19/12/2015 15:31 66	28/11/2015 19:06 45
28/11/2015 14:01 65	4/12/2015 8:31 62	9/12/2015 15:01 65	15/12/2015 9:31 69	19/12/2015 16:01 62	28/11/2015 19:11 61
28/11/2015 14:31 69	4/12/2015 9:01 65	9/12/2015 15:31 58	15/12/2015 10:01 67	19/12/2015 16:31 63	28/11/2015 19:16 61
28/11/2015 15:01 63	4/12/2015 9:31 62	9/12/2015 16:01 62	15/12/2015 10:31 67	19/12/2015 17:01 45	28/11/2015 19:21 61
28/11/2015 15:31 63	4/12/2015 10:01 58	9/12/2015 16:31 64	15/12/2015 11:01 71	19/12/2015 17:31 65	28/11/2015 19:26 61
28/11/2015 16:01 60	4/12/2015 10:31 64	9/12/2015 17:01 64	15/12/2015 11:31 55	19/12/2015 18:01 63	28/11/2015 19:31 62
28/11/2015 16:31 67	4/12/2015 11:01 66	9/12/2015 17:31 63	15/12/2015 12:01 62	19/12/2015 18:31 62	28/11/2015 19:36 45
28/11/2015 17:01 29	4/12/2015 11:31 62	9/12/2015 18:01 61	15/12/2015 12:31 63	21/12/2015 7:01 62	28/11/2015 19:41 50
28/11/2015 17:31 66	4/12/2015 12:01 64	9/12/2015 18:31 59	15/12/2015 13:01 67	21/12/2015 7:31 63	28/11/2015 19:46 54
28/11/2015 18:01 63	4/12/2015 12:31 63	10/12/2015 7:01 61	15/12/2015 13:31 69	21/12/2015 8:01 65	28/11/2015 19:51 48
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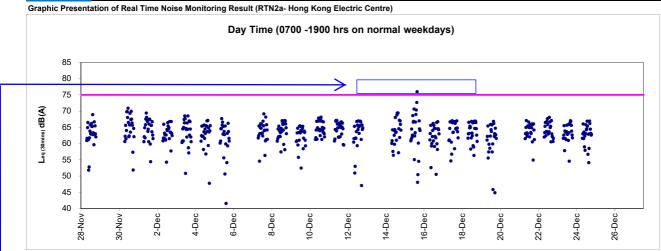
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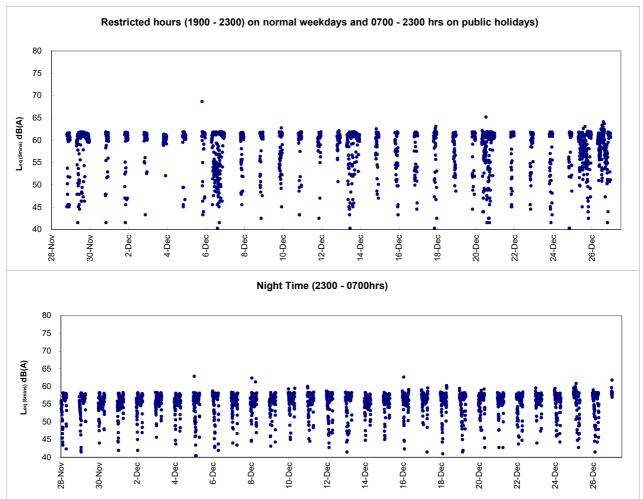
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24/12/2015 0:06 57	25/12/2015 1:11 59	26/12/2015 2:16 46
24/12/2015 0:11 58	25/12/2015 1:16 60	26/12/2015 2:10 40 26/12/2015 2:21 58
24/12/2015 0:16 57	25/12/2015 1:21 58	26/12/2015 2:26 48
24/12/2015 0:21 56	25/12/2015 1:26 59	26/12/2015 2:31 58
24/12/2015 0:26 55	25/12/2015 1:31 57	26/12/2015 2:36 58
24/12/2015 0:31 54	25/12/2015 1:36 57	26/12/2015 2:41 46
24/12/2015 0:36 57	25/12/2015 1:41 58	26/12/2015 2:46 51
24/12/2015 0:41 55	25/12/2015 1:46 58	26/12/2015 2:51 51
24/12/2015 0:46 55	25/12/2015 1:51 59	26/12/2015 2:56 58
24/12/2015 0:51 54	25/12/2015 1:56 57	26/12/2015 3:01 49
24/12/2015 0:56 52	25/12/2015 2:01 55	26/12/2015 3:06 48
24/12/2015 1:01 55	25/12/2015 2:06 55	26/12/2015 3:11 57
24/12/2015 1:06 56	25/12/2015 2:11 51	26/12/2015 3:16 58
24/12/2015 1:11 52	25/12/2015 2:16 55	26/12/2015 3:21 57
24/12/2015 1:16 50	25/12/2015 2:21 61	26/12/2015 3:26 58
24/12/2015 1:21 48	25/12/2015 2:26 57	26/12/2015 3:31 57
24/12/2015 1:26 51	25/12/2015 2:31 57	26/12/2015 3:36 32
24/12/2015 1:31 46	25/12/2015 2:36 56	26/12/2015 3:41 58
24/12/2015 1:36 46	25/12/2015 2:41 55	26/12/2015 3:46 57
24/12/2015 1:41 51	25/12/2015 2:46 59	26/12/2015 3:51 57
24/12/2015 1:46 52	25/12/2015 2:51 58	26/12/2015 3:56 58
24/12/2015 1:51 49	25/12/2015 2:56 57	26/12/2015 4:01 57
24/12/2015 1:56 52	25/12/2015 3:01 59	26/12/2015 4:06 57
24/12/2015 2:01 49	25/12/2015 3:06 56	26/12/2015 4:11 57
24/12/2015 2:06 58	25/12/2015 3:11 57	26/12/2015 4:16 57
24/12/2015 2:11 58	25/12/2015 3:16 53	26/12/2015 4:21 57
/ 12/2010 Z.11 UU	20/12/2010 0.10 00	20/12/2010 7.21 3/

26/12/2015 4:26 58
26/12/2015 4:31 57
26/12/2015 4:36 57
26/12/2015 4:41 57
26/12/2015 4:45 58
26/12/2015 4:56 58
26/12/2015 5:06 57
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26/12/2015 5:01 55
26/12/2015 5:11 56
26/12/2015 5:21 58
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26/12/2015 23:3.26 58 26/12/2015 23:31 58 26/12/2015 23:36 58 26/12/2015 23:41 62 26/12/2015 23:46 57 26/12/2015 23:51 58 26/12/2015 23:56 58







After checking with Contractor of HY/2009/19, on 15 December 2015, concreting was undertaken by Contract HY/2009/19 while steel bar cutting works for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor immediately next to the noise monitoring station. In view of the mitigation measures implemented and the non-CWB works conducted next to the monitoring station as major noise contribution, the exceedance was considered as non-Project related.

Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

EVENT	ACTION												
	ET	IEC	ER	CONTRACTOR									
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)									

am	Lam Geotechnics Limit

EVENT				
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event / Action Plan for Construction Air Quality

EVENT		ACTION		
EVENI	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				I
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
Exceedance for two or more consecutive samples	Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification and IEC within 3 morking days of notification structure. Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event and Action Plan for Marine Water Quality

EVENT		ACTION			
	ET	IEC	ER	CONTRACTOR	
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agree mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)

Event and Action Plan for Odour Patrol

Event	ACTION								
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD							
Action Level									
Exceedance of Action Level	Identify source/reason of exceedance; Repeat odour patrol to confirm finding.	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 							
Limit Level									
Exceedance of Limit Level	Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; If exceedance stops, cease additional odour patrol.	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 							

Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N194	15-Dec-15	13:27	M1a-Habour Road Sports Centre	84	Leq(30-min)	when one documented complaint was received.	75	Possible reason:	Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Action taken / to be taken: Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Breaking works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement and mitigtaion measures including provision of noise screen and noise barrier was implemented. Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N192	11-Dec-15	10:05	M6 - HK Baptist Church Henrietta Secondary School	68	Leq(30-min)	when one documented complaint was received.	65	Action taken / to be taken: Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution. Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. No construction work was conducted under Contract HY/2009/19 around the concerned location during the time of measurement and it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N	89 8-Dec-1	16:18	M1a-Habour Road Sports Centre	83	Leq(30-min)	when one documented complaint was received.	75		Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Bored Pilling works and ground investigation works at portion 5 and backfilling at portion 2 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref	. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X	_10N190	8-Dec-15	16:18	M1a-Habour Road Sports Centre	83	Leq(30-min)	when one documented complaint was received.	75		Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
									Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Breaking works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement and mitigtaion measures including provision of noise screen and noise barrier was implemented. Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N186	1-Dec-15	10:20	M1a-Habour Road Sports Centre	89	Leq(30-min)	when one documented complaint was received.	75	Possible reason:	Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Action taken / to be taken: Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Bored Pilling works and ground investigation works at portion 2 and reclamation works at WCR3 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N187	1-Dec-15	10:20	M1a-Habour Road Sports Centre	89	Leq(30-min)	when one documented complaint was received.	75	Possible reason:	Breaking works at Ex-Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Welding works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N197	23-Dec-15	13:42	M1a-Habour Road Sports Centre	84	Leq(30-min)	when one documented complaint was received.	75		Breaking works at Ex-Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Bored Pilling works and ground investigation works at portion 5 and backfilling at portion 2 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N198	23-Dec-15	13:42	M1a-Habour Road Sports Centre	84	Leq(30-min)	when one documented complaint was received.	75	Possible reason:	Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Excavation works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N196	16-Dec-15	9:40	M6 - HK Baptist Church Henrietta Secondary School	69	Leq(30-min)	when one documented complaint was received.	65	Action taken / to be taken: Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution. Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. No construction work was conducted under Contract HY/2009/19 around the concerned location during the time of measurement and it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.



1	Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
	X_10N193	15-Dec-15	13:27	M1a-Habour Road Sports Centre	84	Leq(30-min)	when one documented complaint was received.	75	Possible reason:	Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre) under non WDII-CWB Contractor.
									Action taken / to be taken: Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Bored Pilling works and ground investigation works at portion 5 and backfilling at portion 2 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.

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Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D567	21-Dec-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.66	3.84	3.73	Possible reason:	Possible in relation to the upstream organic discharge.
									Remarks/ Other Obs:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with Contractor works and review previous monitoring data. Despite seawall reinstatement was conducted at TPCWAE on the monitoring date, contractor mitigation measures including the use of silt curtain was generally in order while upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.

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Define	Data	Tidal	Looption	Parameters (Unit)	Manageman	Action Level	Limait Laval	Follow-up action	1
Ref no.	Date	Tidal	Location	` '					
X_10C705	7-Dec-15	Mid-ebb	P5	DO(mg/l)	5.59	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	19.86	9.10	10.25	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				ss	19.50	15.00	22.13	Remarks/ Other Obs:	Despite installation of slotted panels was conducted under Contract HK/2012/08 near Zone A2 on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of no turbidity exceedances were recorded at the monitoring stations located at the immediate downstream location to the construction area and no turbidity exceedance recorded on the subsequent monitoring, it was considered that the turbidity exceedance was not project related. For suspended solid exceedance, in view of no suspended solid exceedance recorded at the monitoring stations located at the immediate downstream location to the construction area and no suspended solid exceedance recorded on the subsequent monitoring, it was considered that suspended solid exceedance was not project related.
X_10C706	26-Dec-15	Mid-ebb	C1	DO(mg/l)	5.59	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of water abstraction location for the water quality monitoring station.
				Turbidity	11.37	9.10	10.25	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				ss	4.50	15.00	22.13	Remarks/ Other Obs:	No marine construction activity was conducted under HK/2009/01 on the monitoring date. No marine construction activity was conducted under HK/2009/02 on the monitoring date, while the location of the construction area was located at downstream of C1 monitoring station. In view of no marine construction activity was conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5257	30-Nov-15		RW21-P789	DO(mg/l)	5.81	3.66		Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.13	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	8.00	13.00	14.43	Remarks/ Other Obs:	No marine construction activity was conducted under Contract HK/2009/02 on the monitoring date. The installed silt screen was generally in order. In view of the no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5258	30-Nov-15	Mid-flood	WSD19	DO(mg/l)	5.92	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.56	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	6.00	13.00	14.43	Remarks/ Other Obs:	Despite trimming of grade 400 rock bedding was conducted under Contract HK/2012/08 near Zone A1 on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5259	2-Dec-15	Mid-flood	WSD19	DO(mg/l)	4.99	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	9.90	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	9.50	13.00	14.43	Remarks/ Other Obs:	Despite trimming of grade 400 rock bedding was conducted under Contract HK/2012/08 near Zone A1 on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5260	7-Dec-15	Mid-flood	WSD19	DO(mg/l)	6.01	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.61	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	9.50	13.00	14.43	Remarks/ Other Obs:	Despite installation of slotted panels was conducted under Contract HK/2012/08 near Zone A2 on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5261	16-Dec-15	Mid-ebb	WSD19	DO(mg/l)	6.15	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.23	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	5.50	13.00	14.43	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity conducted, it was considered that the exceedance was not project related.
X_W5262	16-Dec-15	Mid-flood	WSD19	DO(mg/l)	5.07	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.88	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	6.50	13.00	14.43	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity conducted, it was considered that the exceedance was not project related.
X_W5263	18-Dec-15	Mid-ebb	RW21-P789	DO(mg/l)	6.18	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.78	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	4.00	13.00	14.43	Remarks/ Other Obs:	No marine construction activity was conducted under Contract HK/2009/02 on the monitoring date. The installed silt screen was generally in order. In view of the no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5264	18-Dec-15	Mid-ebb	WSD19	DO(mg/l)	6.96	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.51	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	6.00	13.00	14.43	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity conducted, it was considered that the exceedance was not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W5265	18-Dec-15	Mid-flood	WSD19	DO(mg/l)	5.57	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.58	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	8.00	13.00	14.43	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
X_W5266	23-Dec-15	Mid-flood	WSD19	DO(mg/l)	6.39	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	8.24	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				SS	6.00	13.00	14.43	Remarks/ Other Obs:	Despite trimming of grade 400 rock mound was conducted under Contract HK/2012/08 near Zone D on the monitoring date, contractor mitigation measures including the use of localized silt curtain was generally in place. In view of the above, it was considered that the exceedance was not project related.
X_W5266	26-Dec-15	Mid-ebb	WSD19	DO(mg/l)	6.44	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	14.32	8.04	9.49	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checking with Contractor works and review previous monitoring data.
				ss	8.00	13.00	14.43	Remarks/ Other Obs:	No marine activity was conducted under Contract HK/2012/08 on the monitoring date. In view of no marine activity conducted and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

Appendix 9.1

Complaint Log

Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	'/	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
						No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
		233384048)		hours 1900 to 0800 and request to reduce the noise level.	2)	According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.	
					3)	No further complaints were received in the reporting month. The complaint is considered closed.	
100731	31/7/2010	Mr. Lee received by ICC (CC Case:		Complaint on the noise nuisance due to the dredging works.	'	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
		1-250702681)		Three construction plants were operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
					3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.	
					4)	It is considered as invalid from the EP and CNP point of view. $ \\$	
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
				works area adjacent to the Harbour Height during the period from 0700 to 2200.		No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.	Closed
				,	2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs		Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
					2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.	
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.	
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spotlight pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; • Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; • Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; • No starting work on 7 Dec 2010 at 0630hours. 2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; 3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; 6) No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	//ictoria Centre at //ictoria Centre by CC (ICC# 1-	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	''	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section	Closed
				3)	Whitefield Depot which is next to the Victoria Centre. It is considered as invalid complaint under this Project.		
110617	9/06/2011	Mr. Law from Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.	Closed
		Office		Road in part of the site area was related to CWB under Contract no. HY/2009/11	2)	According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	
				3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.		
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
				5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.		



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylonwire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary	Closed
					4)	near the intake of the pump maybe considered as another source of rubbish generation. Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	',	ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						so as to prevent recurrent by barge defect	
ICC	Victoria Centre by	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.		
			Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed	
			4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.			
		5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.				
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					 In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure. 	
	Ms. Chiu by ICC	North Point	Noise nuisance from the excavation works for the	1) It was referred by AECOM to ET on 28 July 2011		
		no.1-304615409		Highways Department adjacent to the Victoria Centre was conducted from 7am	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					 As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am. 	
	08/08/2011	However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed			
					5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Remarks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	Closed
					3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the	
				3)	dominant construction noise source during this period. The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.		
				4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed	
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						 Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 	
						 In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed 	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1)	RSS notified ET to carry out investigation on 17 October 2011. ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



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					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.	
					After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.	
					Contractor was reminded to enhance regular checking and maintenance to all plants at site.	
					5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	 ET confirmed with the Resident Site Staff that A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area. 	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied



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					2)	CNP was checked by the police officer. ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. Due to insufficient communication between Contractor	
					3)	NK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	3)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. HyD made a reply to the complainant on 16 April 2012 via	Closed
						1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	



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					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	'	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014. ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and	Interim Report was submitted to EPD on 20 June 2014.



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					3)	the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint appearance was submitted to FRA via appeal on 18 June 2014.	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	0)	case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation.	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Fina report (Issue2) Issued on 12 Aug 2014.
					3)	According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period	
					4)	It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	



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					Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground. ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014

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					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	
					Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation.	
					According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.	
					In view of the above findings, no direct information associated with the noise concern was considered available.	

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141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14 EPD complaint received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014). The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool. ET confirmed with the Resident Site Staff that ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated. Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier) Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated. According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating onsite. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 17 November 2014. EPD advised no comment on the interim report and case closed on 1 Dec 2014.



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					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating onsite and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



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141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night. EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14. EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents.	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015



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					conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	
					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.	
					In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge	Interim report submitted to EPD on 29 June 2015



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		2015	Ground	other construction plants under operation from the reclamation construction site	moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.	
					ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly	



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					environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.	
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	Interim report submitted to EPD on 30 July 2015.



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					Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed



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					barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
					The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation.	report submitted to EPD on 14 September 2015.
					From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.	
					Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.	
					From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	
					From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
					The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.	
					The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the	Interim investigation report submitted to EPD on 25



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.	September 2015
					In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.	
151015	11 Oct 2015	A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015	Seafront opposite to Watson Road adjacent to Eastern Breakwater	Pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.	Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.	HyD will consolidate all input from relevant parties to form a reply to ICC.
					Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed. Based on the above, no direct information indicating the pink	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					fluid was originated from the worksarea under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.	
151028	26 Oct 2015	A public complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref:H05/RS/00 027330-15 Dated 28 October 2015)	Construction Site next to ex-Wan Chai Ferry Pier	Operation of grab dredger at construction site near the ex-Wan Chai Ferry Pier from around 0100 to 0400 hours on 26 October 2015 caused noise nuisance.	According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place. The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.	The interim report would be submitted to EPD on 05 November 2015
151116	13 November 2015	A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/000291 26-15)	Construction Site at HKCEC and seafront outside Lung Wo Road	Muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level	Based on the site records, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generated around the localized silt curtain enclosed area, the Contractor was advised to promptly improve the condition of the silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement. Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to	The interim investigation report would be submitted to EPD on 1 December 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure. A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order. A public complaint regarding illegal disposal of construction	Interim
151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Habour	waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats. Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill. White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.	investigation report submitted to EPD on 24 November 2015. 2nd interim investigation report submitted to EPD on 17 December 2015. 3rd interim investigation report submitted to EPD on 31 December 2015. Final

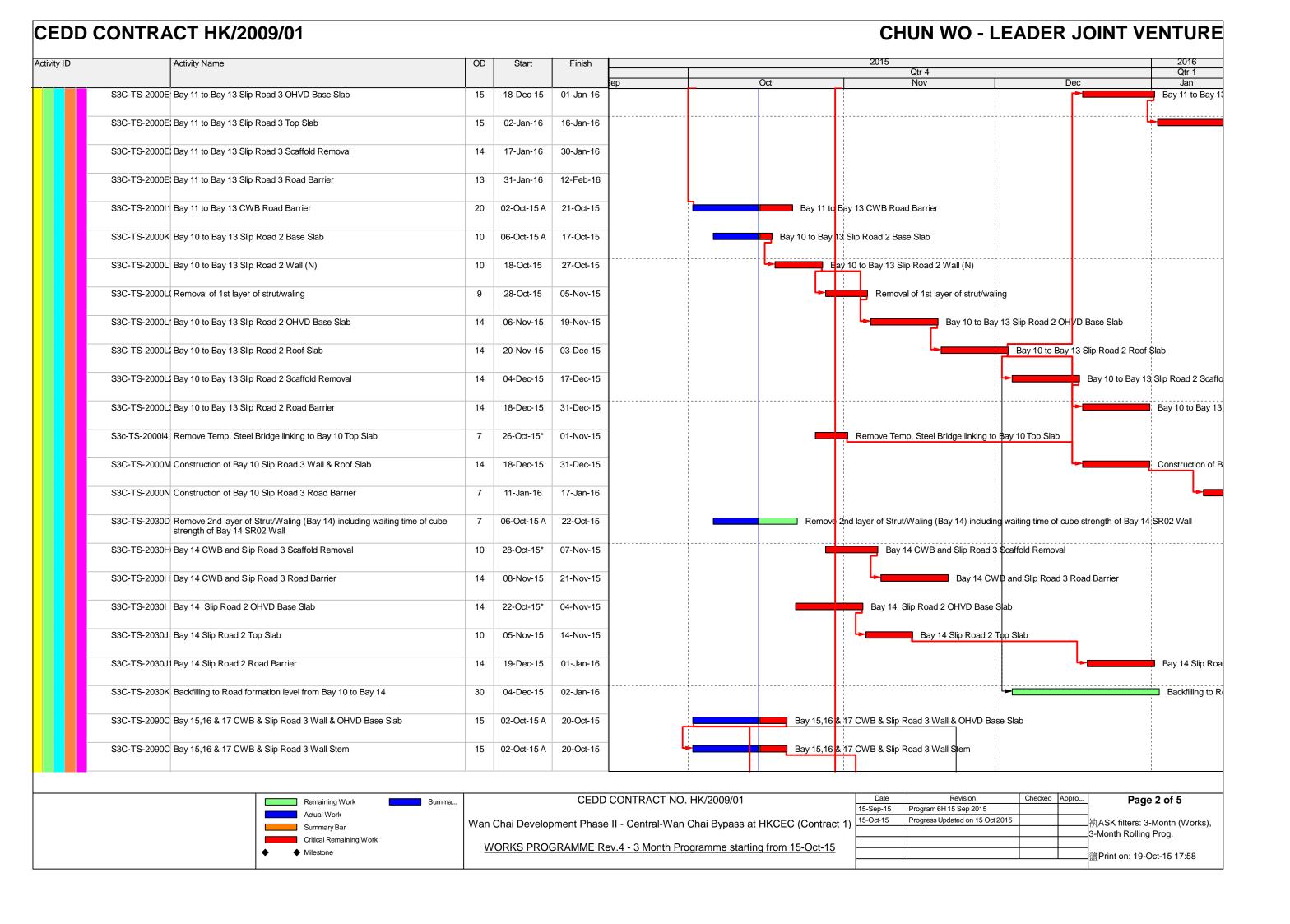


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					In response to the complaint concern, additional water quality monitoring and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction activities during the concerned period and the quantities of inert C&D material disposed. Upon further review on relevant records and follow up inspections on the implementation of site measures, the final investigation would be issued.	

Appendix 10.1

Construction Programme of Individual Contracts

CEDD CONTRACT HK/2009/01 **CHUN WO - LEADER JOINT VENTURE** Activity ID Activity Name Start Finish Qtr 4 Qtr 1 Oct Dec Nov Jan HK/2009/01 - Revised Works Progress Rev. 6H (Data Date: 15 Oct 15) Section 3 of the Works - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8 CWB Tunnelling Works (Stage 1 : CH2947 - CH3045) Stage 1 - Tunnel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045) Tunnel Structure at Stage 1A & 1B (CH2947 - CH3045) Backfilling to formation level for Stage 1B (CH 80 to CH 120) S3A-TS-2080 Backfilling to formation level for Stage 1B (CH 80 to CH 120) 200 19-Jan-15 A 15-Nov-15 CWB Tunnelling Works (Stage 2 : Ch3045 - Ch3129) Stage 2 - Tunnel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129) S3B-TS-1160C2 Construction of Bay 9 Slip Road 2 Wall Construction of Bay 9 Slip Road 2 Wall 26-Sep-15 A 21-Oct-15 S3B-TS-1160C3 Construction of Bay 9 Slip Road 2 Road Barrier 07-Oct-15 A 19-Oct-15 Construction of Bay 9 Slip Road 2 Road Barrier S3B-TS-1160E1 Construction of Retaining Wall 2 Road Barrier including Demolish 14-Oct-15 A 27-Oct-15 Construction of Retaining Wall 2 Road Barrier including Demolish of Temporary Dwall to Cut-off Level ofTemporary Dwall to Cut-off Level S3B-TS-1165A1 Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall 05-Oct-15 A 18-Oct-15 Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall 25 08-Nov-15 Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier S3B-TS-1165B Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier 10 20-Aug-15 A S3B-TS-1165E Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier 24-Sep-15 A 28-Oct-15 Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier S3B-TS-1180A Bay 9b & 10 CWB Road Barrier 20 03-Oct-15 A 22-Oct-15 Bay 9b & 10 CWB Road Barrier S3B-TS-9000A Backfilling to Formation Level (CWB) - 12,000cu.m 20 03-Aug-15 A 22-Dec-15 Backfilling to Formation Level CWB Tunnelling Works (Stage 3 : Ch3129 - Ch3245) Stage 3 - Excavation Works (Ch3129 - Ch3245) **Excavation Works at Stage 3** S3C-EW-1010E Excavation to -16mPD (approx 55,000m3) 100 13-Mar-15 A 31-Oct-15 Excavation to -16mPD (approx 55,000m3) Stage 3 - Tunnel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245) Tunnel Structure at Stage 3A & 3B (CH3129 - CH3245) S3C-TS-2000E Bay 11 to Bay 13 Slip Road 3 Wall 22-Oct-15 31-Oct-15 Bay 11 to Bay 13 Slip Road 3 Wall S3C-TS-2000E Access reseved for HyD's CC prior to completion of Slip Road 2 01-Nov-15 17-Dec-15 Access reseved for HyD's CC prior Date Revision Checked Appro... CEDD CONTRACT NO. HK/2009/01 Page 1 of 5 Remaining Work Summa.. 15-Sep-15 Program 6H 15 Sep 2015 Actual Work Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1) Progress Updated on 15 Oct 2015 執ASK filters: 3-Month (Works), Summary Bar 3-Month Rolling Prog. Critical Remaining Work WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15 Milestone 蘯Print on: 19-Oct-15 17:58

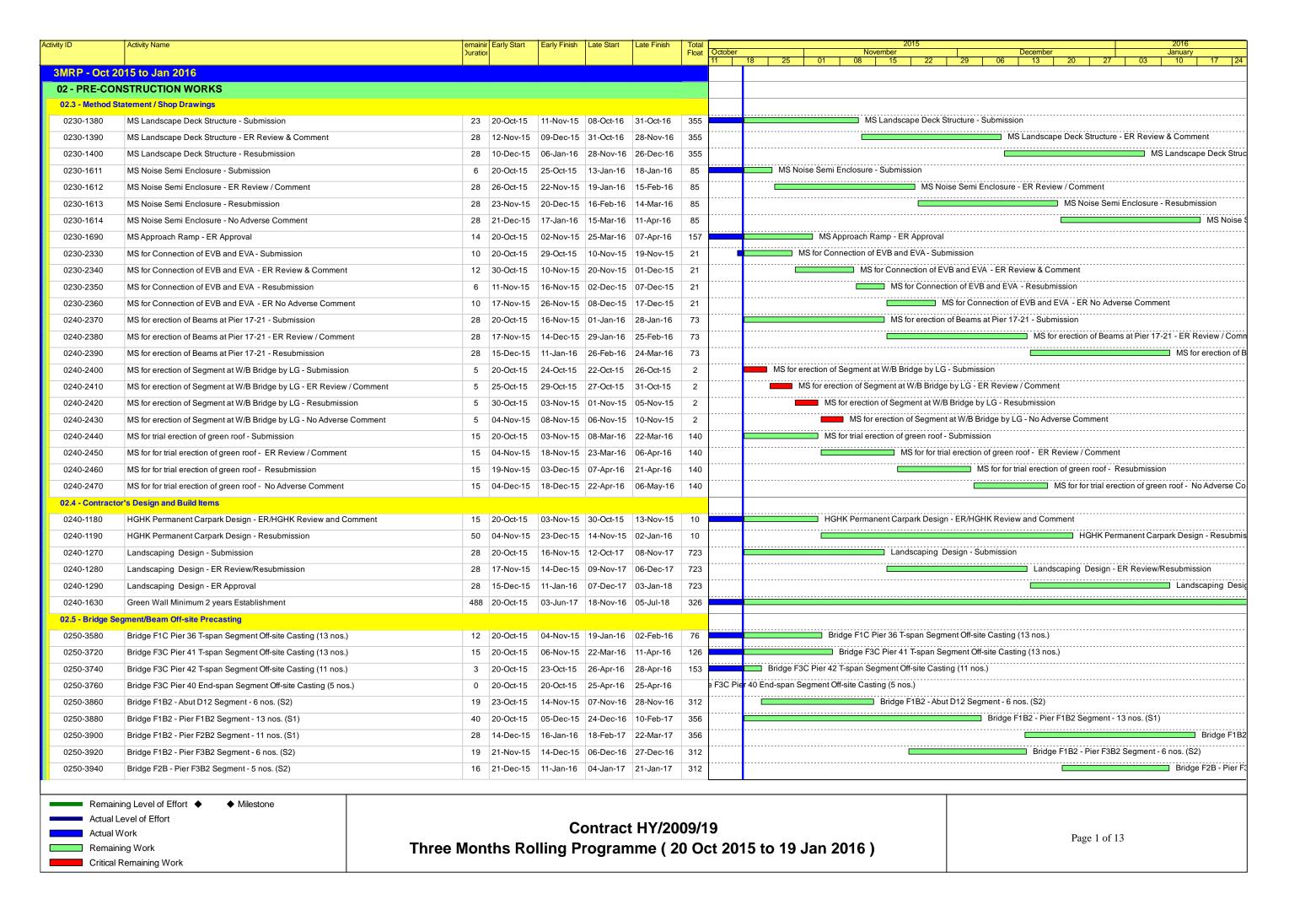


CEDD CONTRACT HK/2009/01 **CHUN WO - LEADER JOINT VENTURE** Activity ID Activity Name Start Finish Qtr 4 Qtr 1 Oct Nov Jan S3C-TS-2090C Bay 15,16 & 17 CWB Road Barrier Bay 15,16 & 17 CWB Road Barrier 20 05-Nov-15 24-Nov-15 S3C-TS-2090C Bay 15,16 & 17 Slip Road 3 Road Barrier 25-Nov-15 08-Dec-15 Bay 15,16 & 17 Slip Road 3 Road Barrier S3C-TS-2090D Bay 15,16 & 17 Slip Road 2 OHVD Base Slab 30-Oct-15 Bay 15,16 & 17 Slip Road 2 OHVD Base Slab 16 15-Oct-15 S3C-TS-2090D Bay 15,16 & 17 Slip Road 2 Road Barrier 14 08-Dec-15 21-Dec-15 Bay 15,16 & 17 Slip Road 2 Ro S3C-TS-2110A Bay 18, 19 & 20 CWB & Slip Road 2 & Slip Road 3 Base Slab 12 01-Nov-15 12-Nov-15 Bay 18, 19 & 20 CWB & Slip Road 2 & Slip Road 3 Base Slab S3C-TS-2110B Removal of 2nd & 3rd layer of struts/wailer at Bay 18, 19 & 20 14 20-Nov-15 04-Dec-15 Removal of 2nd & 3rd layer of struts/wailer at Bay 18 S3C-TS-2110C Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 Wall 15 19-Dec-15 Bay 18, 19 & 20 CWB, Slip Road 05-Dec-15 Bay 18, 19 & S3C-TS-2110D Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 OHVD Base Slab 15 20-Dec-15 03-Jan-16 S3C-TS-2110E Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 OHVD Wall Stem & Top 20 04-Jan-16 23-Jan-16 17 S3C-TS-2110E Removal Scaffold at Bay 18 to 20 24-Jan-16 09-Feb-16 S3C-TS-2110F Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier 10-Feb-16 18-Feb-16 Section 8 of the Works - Works in Area 6 (Utilities other than Watermains in Fenwick Pier Street) **Sewerage Works** S8-3010 Planter Reinstatement 29-Jul-15 A 22-Oct-15 Planter Reinstatement S8-3020 Road Reinstatement 25-Sep-15 A 22-Oct-15 Section 9 of the Works - Remaindar of the Works **Box Culvert Construction** S9-1070 Backfill the Temporary Water Channel from East to West (BG/BI Connection 02-Jun-15 A 30-Nov-15 Backfill the Temporary Water Channel from East to West (E Point at Water Channel) Reprovision of Expo Drive East Traffic Aid and Demolition of Remaining Portion of Existing Traffic Aid and Demolition of Remaining Portion of Existing Expo Drive East 30-Jul-15 A 30-Nov-15 S9-2050 45 Construction of Retaining Wall Extension to Top of Box Culvert Bay 7 15-Feb-16 S9-2060 17-Jan-16 Waterworks in Area 9 **Abandaned Pipes Removal** S9-7090 Zone A4-4 Abandoned Pipes P7/P9 Removal Works 14-Oct-15 A 07-Dec-15 Zone A4-4 Abandoned Pipes P7/P9 Removal Wor Date Revision Checked Appro... CEDD CONTRACT NO. HK/2009/01 Page 3 of 5 Remaining Work Summa... 15-Sep-15 Program 6H 15 Sep 2015 Actual Work Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1) Progress Updated on 15 Oct 2015 執ASK filters: 3-Month (Works), Summary Bar 3-Month Rolling Prog. Critical Remaining Work WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15 Milestone 蘯Print on: 19-Oct-15 17:58

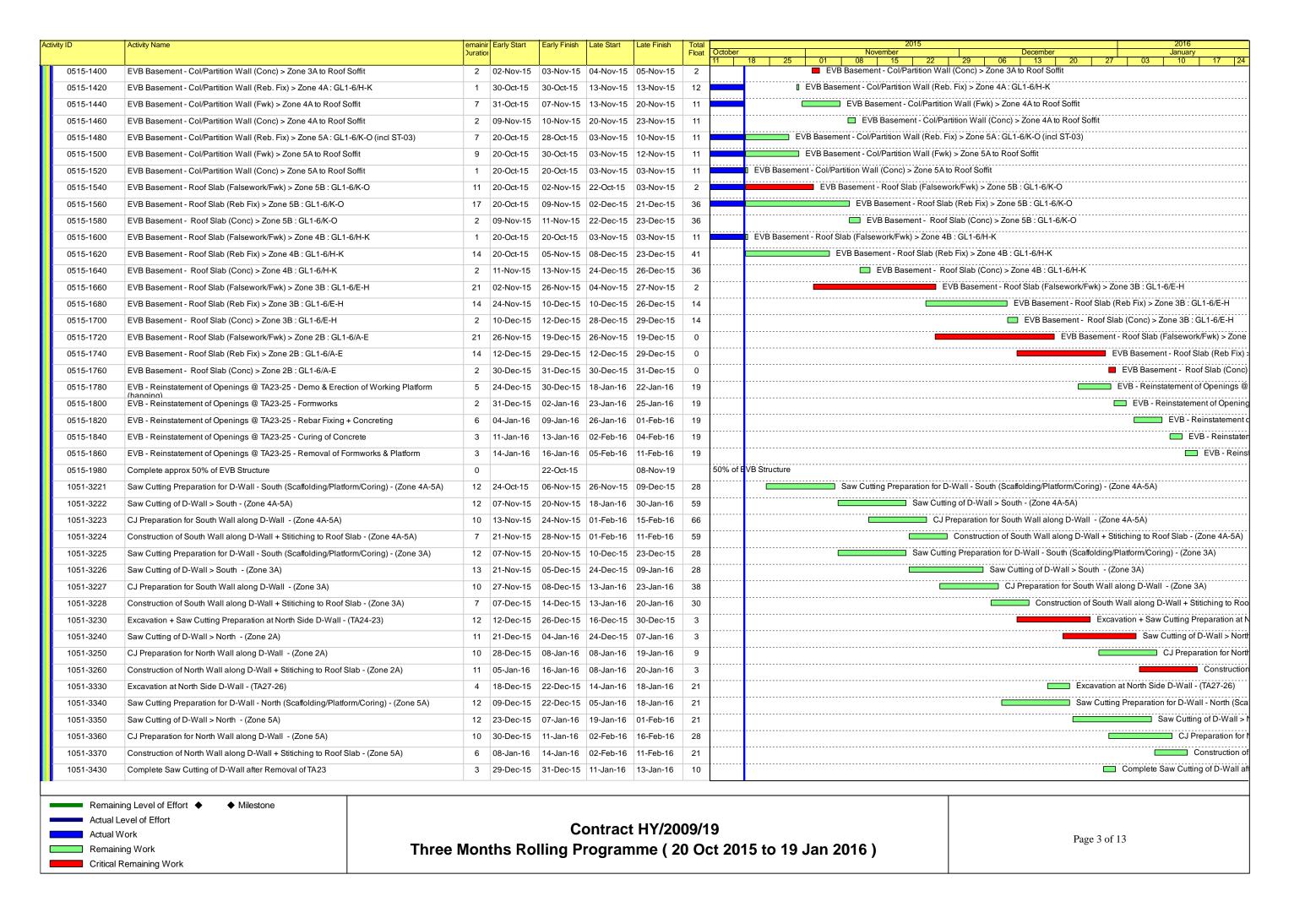
CEDD CONTRACT HK/2009/01 **CHUN WO - LEADER JOINT VENTURE** Activity ID Activity Name Start Finish Qtr 4 Otr 1 Oct Nov Jan S9-7100 Zone X1-4a Abandoned Pipes P5 Removal Works 20-Oct-15* 08-Dec-15 Zone X1-4a Abandoned Pipes P5 Removal Wor 14 Section 9A of the Works - Landscape Softworks in Area 9 S9A-1000 Transplanting at Expo Drive East and Convention Avenue Junction 180 15-Oct-15 11-Apr-16 Landscape Softwo S9A-2000 Landscape Softworks in Area 9 Footpath 60 15-Oct-15 30-Dec-15 S9A-3000 Completion of the Landscape Softworks in Area 9 0 30-Dec-15 Completion of the Section 9B of the Works - Establishment Works in Area 9 S9B-1000 Establishment Works at Area 9 11-Apr-16 10-Apr-17 Variation Order No.153 - Design and Construct CWB Bypass Tunnel from CH3246 to CH3278 **Preliminaries** Major Method Statement & Design Submission and Approval DS-0020 ELS Design Submission 15-Oct-15 28-Oct-15 ELS Design Submission 28 DS-0040 Tunnel Structure Design Submission 09-Dec-15 16-Jan-16 28 Method Statement for Tunnel Excavation in Area 8 29-Oct-15 MS-0040 7 04-Nov-15 Method Statement for Tunnel Excavation in Area 8 MS-0060 Method Statement for Tunnel Construction in Area 8 14 05-Nov-15 18-Nov-15 Method Statement for Tunnel Construction in Area 8 Works at Area 8 - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8 CWB Tunnelling Works (Stage 4: Ch3246 - Ch3278) Stage 4 - Pre-bored H-pile and Dewatering Works (CH3246 - CH3278) S4-FW-0020 Installation of Surface Pump Wells (6 nos) 15-Oct-15 28-Oct-15 Installation of Surface Pump Wells (6 nos) Stage 4 - Excavation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx. -1.5mPD and installation of 1st layer strut/waling S4-EW-0010 Stage 4 ELS - excavate to approx. -1.5mPD and installation of 1st layer 26-Jun-15 A 12-Nov-15 21 strut/waling at -0.5mPD (approx. 6700 cu.m) S4-EW-0020 Stage 4 ELS - excavate to approx. -5.7mPD and installation of 2nd layer Stage 4 ELS - excavate to approx. -5.7mPD and insta 04-Dec-15 21 13-Nov-15 strut/waling at -4.7mPD (approx. 6600 cu.m) S4-EW-0030 Stage 4 ELS - excavate to approx. -10mPD and installation of 3rd layer Stage 4 ELS - excavate 21 05-Dec-15 26-Dec-15 strut/waling at -9mPD (approx. 6700 cu.m) Stage 4 ELS - excavate to formation approx. -15.3mPD (approx. 10,000 27-Dec-15 16-Jan-16 Stage 4 - Tunnel Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278) Date Revision Checked Appro... CEDD CONTRACT NO. HK/2009/01 Page 4 of 5 Remaining Work Summa.. 15-Sep-15 Program 6H 15 Sep 2015 Actual Work 15-Oct-15 Progress Updated on 15 Oct 2015 Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1) 執ASK filters: 3-Month (Works), Summary Bar 3-Month Rolling Prog. Critical Remaining Work WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15 Milestone 蘯Print on: 19-Oct-15 17:58

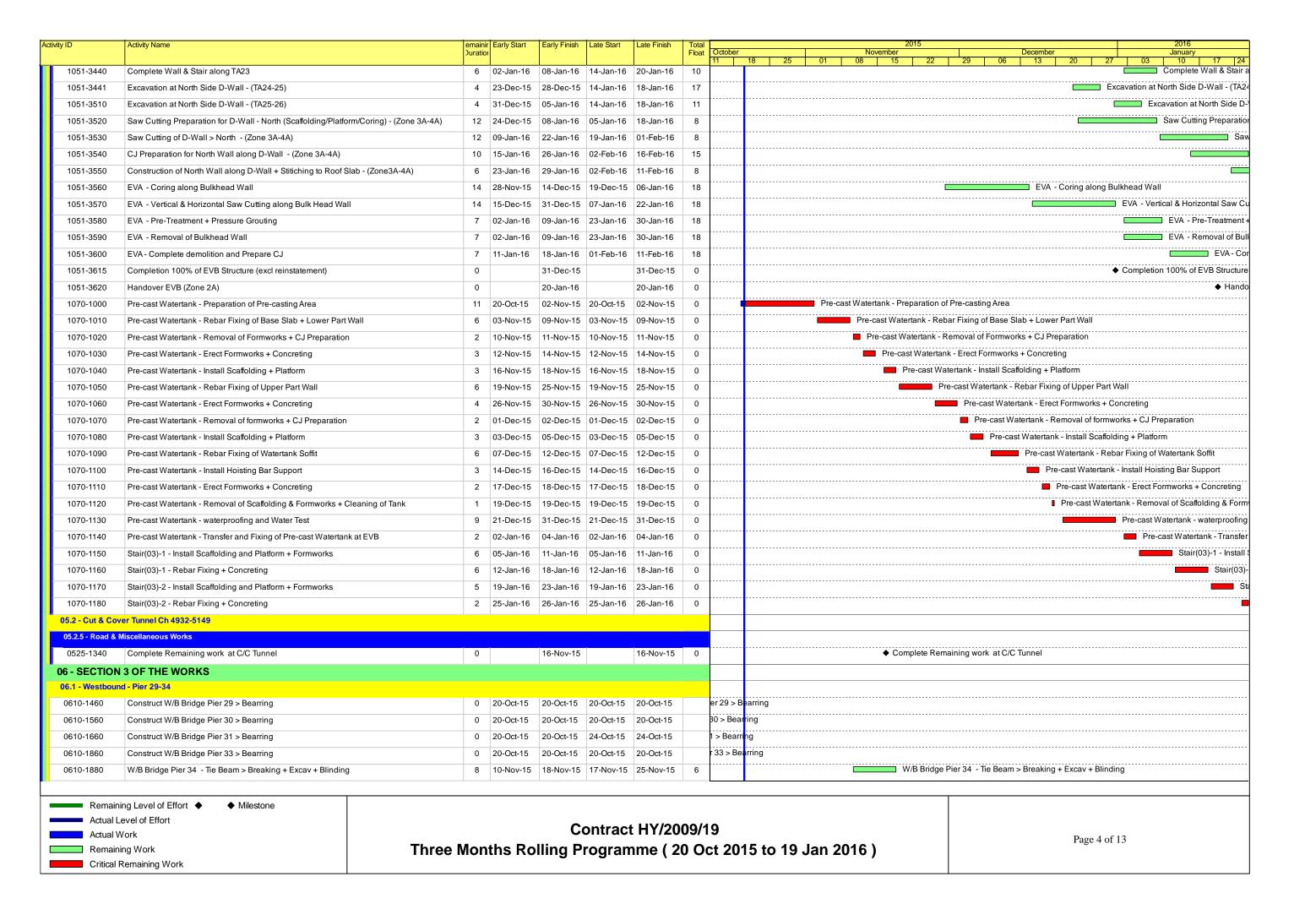
CHUN WO - LEADER JOINT VENTURE CEDD CONTRACT HK/2009/01 2016 Qtr 1 Activity ID Start Activity Name OD Finish Qtr 4 Oct Dec Nov Jan S4-TS-0005 Pile Head Fabrication 24-Jan-16 15 11-Jan-16 S4-TS-0010 Bay 21 Base Slab 25-Jan-16 03-Feb-16 Bay 22 Base Slab S4-TS-0020 10 28-Jan-16 06-Feb-16 S4-TS-0030 Removal of 2nd and 3rd layer of Strut/Waling 28 07-Feb-16 06-Mar-16 Bay 21 & 22 Wall S4-TS-0040 15 07-Mar-16 22-Mar-16 Bay 21 & 22 Wall & OHVD Base Slab S4-TS-0050 23-Mar-16 06-Apr-16 Bay 21 & 22 OHVD Wall Stem and Top Slab 22-Apr-16 07-Apr-16

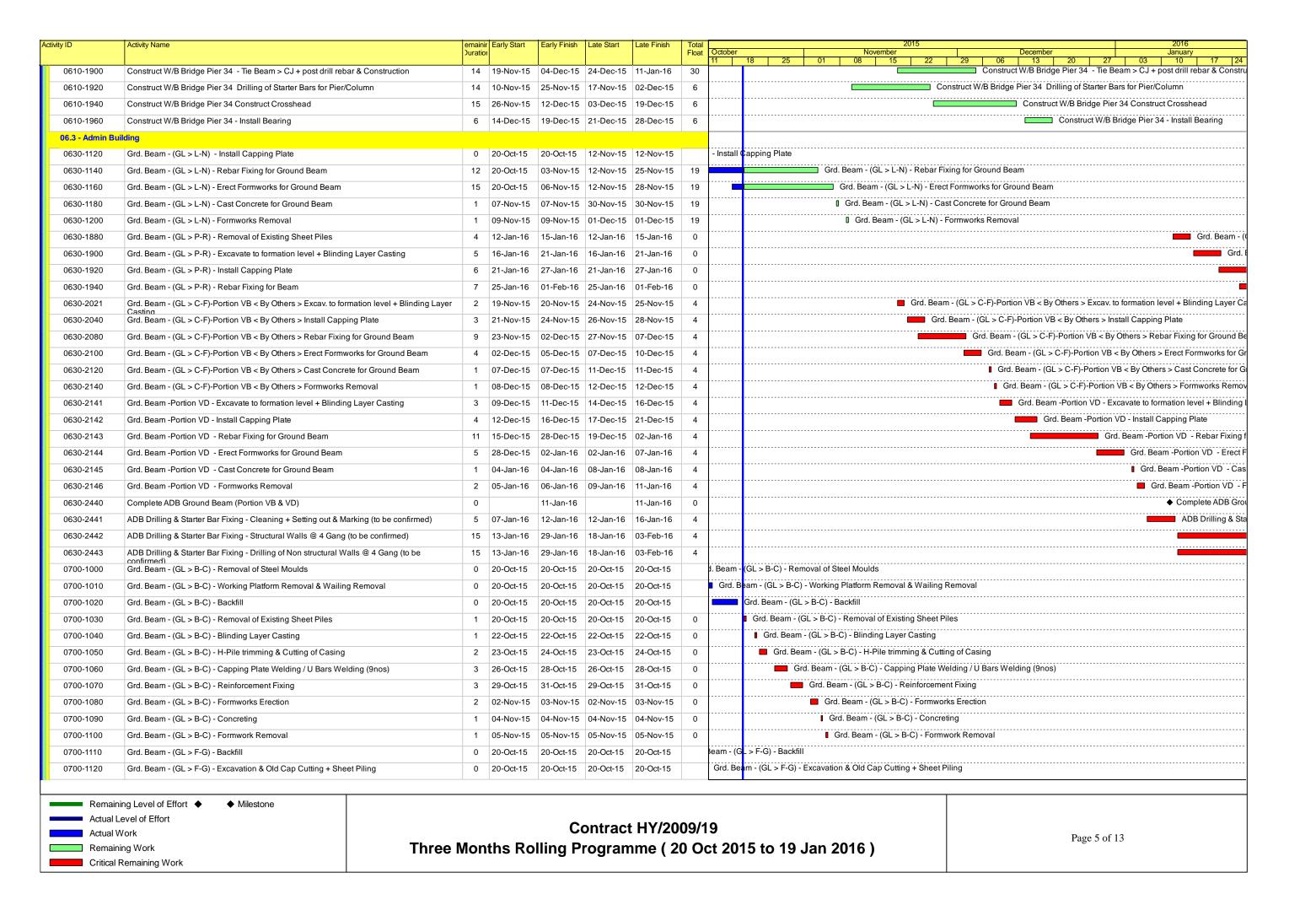
Remaining Work Summa	CEDD CONTRACT NO. HK/2009/01	Date 15-Sep-15	Revision Program 6H 15 Sep 2015	Checked Appro	Page 5 of 5
Actual Work Summary Bar	Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)		<u>'</u>		執ASK filters: 3-Month (Works),
Critical Remaining Work ♦ Milestone	WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15				3-Month Rolling Prog. 蘯Print on: 19-Oct-15 17:58
					



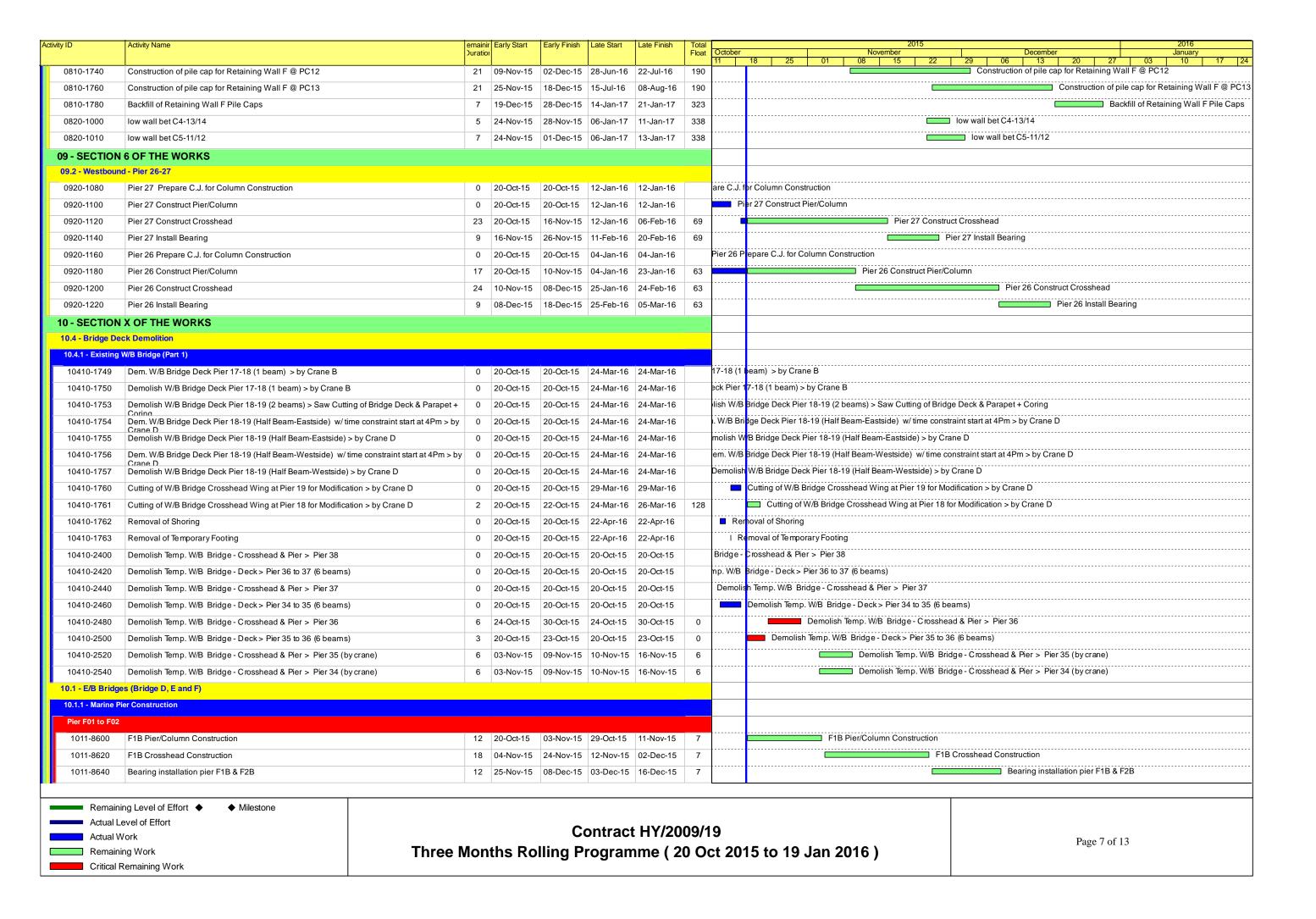
Activity ID	Activity Name		emainir Juration	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 2016 November December January
02.6 - Fabrication	on & Delivery of Noise Enclosure								11	18 25 01 08 15 22 29 06 13 20 27 03 10 17 2
0260-5000	Int. Noise Enclosure Main + Sub Frames Fab / Del		68	20-Oct-15	09-Jan-16	16-Jan-16	11-Apr-16	74		Int. Noise Enclosure
0260-5010	Int. Noise Enclosure Noise Panel Fab / Del				31-Oct-15		· ·	131		Int. Noise Enclosure Noise Panel Fab / Del
	NARY WORKS		. 0	20 001 10	01 001 10	oo mar ro	,			
03.3 - Interface										
0261-1000	Constr. of DN75 Storm Drain (Oil street) - ELS and Excavation		0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		Storm D	ain (Oil street) - ELS and Excavation
0261-1010	Constr. of DN75 Storm Drain (Oil street) - Casting of Blinding	Layer	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		Storm D	ain (Oil street) - Casting of Blinding Layer
0261-1020	Constr. of DN75 Storm Drain (Oil street) - Pipe Laying + Air tes	t	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		of DN75	Storm Drain (Oil street) - Pipe Laying + Air test
0261-1030	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole	-56 (Lower portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		nstr. of D	N75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Lower portion)
0261-1040	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole	-56 (Upper portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		1	str. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Upper portion)
0261-1050	Constr. of DN75 Storm Drain (Oil street) - Concreting Pipeline	intersection	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		I Co	str. of DN75 Storm Drain (Oil street) - Concreting Pipeline intersection
0261-1060	Constr. of DN75 Storm Drain (Oil street) - Trench Backfilling		0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		□ C	onstr. of DN75 Storm Drain (Oil street) - Trench Backfilling
0261-1070	Constr. of DN75 Storm Drain (Oil street) - Removing ELS		2	20-Oct-15	22-Oct-15	23-Oct-15	24-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Removing ELS
0261-1080	Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstate	ment	3	23-Oct-15	26-Oct-15	26-Oct-15	28-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstatement
0261-1090	Complete Drainage work at Oil Street		0		28-Oct-15		28-Oct-15	0		♦ Complete Drainage work at Oil Street
05 - SECTION	I 2 & 2A OF THE WORKS									
	ver Tunnel Ch 4855-4932 (APS Footprint)									
05.1.3 - APS & T	unnel Structure									
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Stairca	ase Landing 12	20	20-Oct-15	12-Nov-15	20-Oct-15	12-Nov-15	0		APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	·	5	07-Nov-15	12-Nov-15	07-Nov-15	12-Nov-15	0		Tunnel Level - South Side Additional Beam at Bay 21
0513-3081	Remedial Works - Concrete defect on partition wall		0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		medial V	orks - Concrete defect on partition wall
0513-3082	Remedial Works - Panel installation		3	13-Nov-15	16-Nov-15	13-Nov-15	16-Nov-15	0		Remedial Works - Panel installation
0513-3083	Remedial Works - Ttrapped gullies		0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Ttrapped gullies
0513-3084	Remedial Works - Water seepage on soffit, diaphragm wall ar	nd floor slab	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Water seepage on soffit, diaphragm wall and floor slab
0513-3085	Remedial Works - Concrete defect on completed staircase		3	20-Oct-15	23-Oct-15	13-Nov-15	16-Nov-15	20		Remedial Works - Concrete defect on completed staircase
0513-3086	Remedial Works - Cleaning of 150mm & 50mm dia. Cross rd.	ducts & Pipes	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		Remed	ial Works - Cleaning of 150mm & 50mm dia. Cross rd. ducts & Pipes
0513-3087	Remedial Works - Concrete defect on walls and slabs at pum	sump E & Tunnel	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Concrete defect on walls and slabs at pump sump E & Tunnel
0513-3580	Completion of Outstanding Works at APS & Tunnel		0		16-Nov-15		16-Nov-15	0		◆ Completion of Outstanding Works at APS & Tunnel
05.1.5 - EVB Sul	b-structure & Tunnel									
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A: GL1	-2/A-E, 2-3/B-E, 3-6/C-F,	4	20-Oct-15	24-Oct-15	20-Oct-15	24-Oct-15	0		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A: GL1-2/A-E, 2-3/B-E, 3-6/C-F, 4-6/F-J
0515-1140	4-6/F-J EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-	1.40) Soffit	7	20-Oct-15	28-Oct-15	20-Oct-15	28-Oct-15	0		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz	(-1.40) Soffit	2	29-Oct-15	30-Oct-15	13-Nov-15	14-Nov-15	13		■ EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fw	k) > Zone 1A	10	20-Oct-15	31-Oct-15	04-Nov-15	14-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zo	ne 1A	6	02-Nov-15	07-Nov-15	16-Nov-15	21-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A
0515-1220	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone	1A	2	09-Nov-15	10-Nov-15	23-Nov-15	24-Nov-15	12		■ EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A
0515-1240	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A: GL1	-6/A-D (incl ST-04)	8	20-Oct-15	29-Oct-15	23-Oct-15	31-Oct-15	2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A : GL1-6/A-D (incl ST-04)
0515-1260	EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof S	offit	12	29-Oct-15	11-Nov-15	29-Oct-15	11-Nov-15	0		EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof Soffit
0515-1280	EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof	Soffit	2	12-Nov-15	13-Nov-15	12-Nov-15	13-Nov-15	0		■ EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit
0515-1300	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/F	wk) > Zone 2A	6	14-Nov-15	20-Nov-15	14-Nov-15	20-Nov-15	0		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A
0515-1320	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > 2	Zone 2A	3	21-Nov-15	24-Nov-15	21-Nov-15	24-Nov-15	0	l	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A
0515-1340	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zon	e 2A	1	25-Nov-15	25-Nov-15	25-Nov-15	25-Nov-15	0	l	■ EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A
0515-1360	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A: GL1		4	20-Oct-15		23-Oct-15		2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A: GL1-6/E-H
0515-1380	EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof So	offit	8	26-Oct-15	03-Nov-15	28-Oct-15	05-Nov-15	2		EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof Soffit
Remair	ning Level of Effort ◆									
	Level of Effort				_	4		0011	_	
Actual \	Vork						t HY/20		_	Page 2 of 13
	ning Work	Three N	/lon	ths Ro	Iling P	rogran	nme (2	0 O	ct 20	15 to 19 Jan 2016)
Critical	Remaining Work									



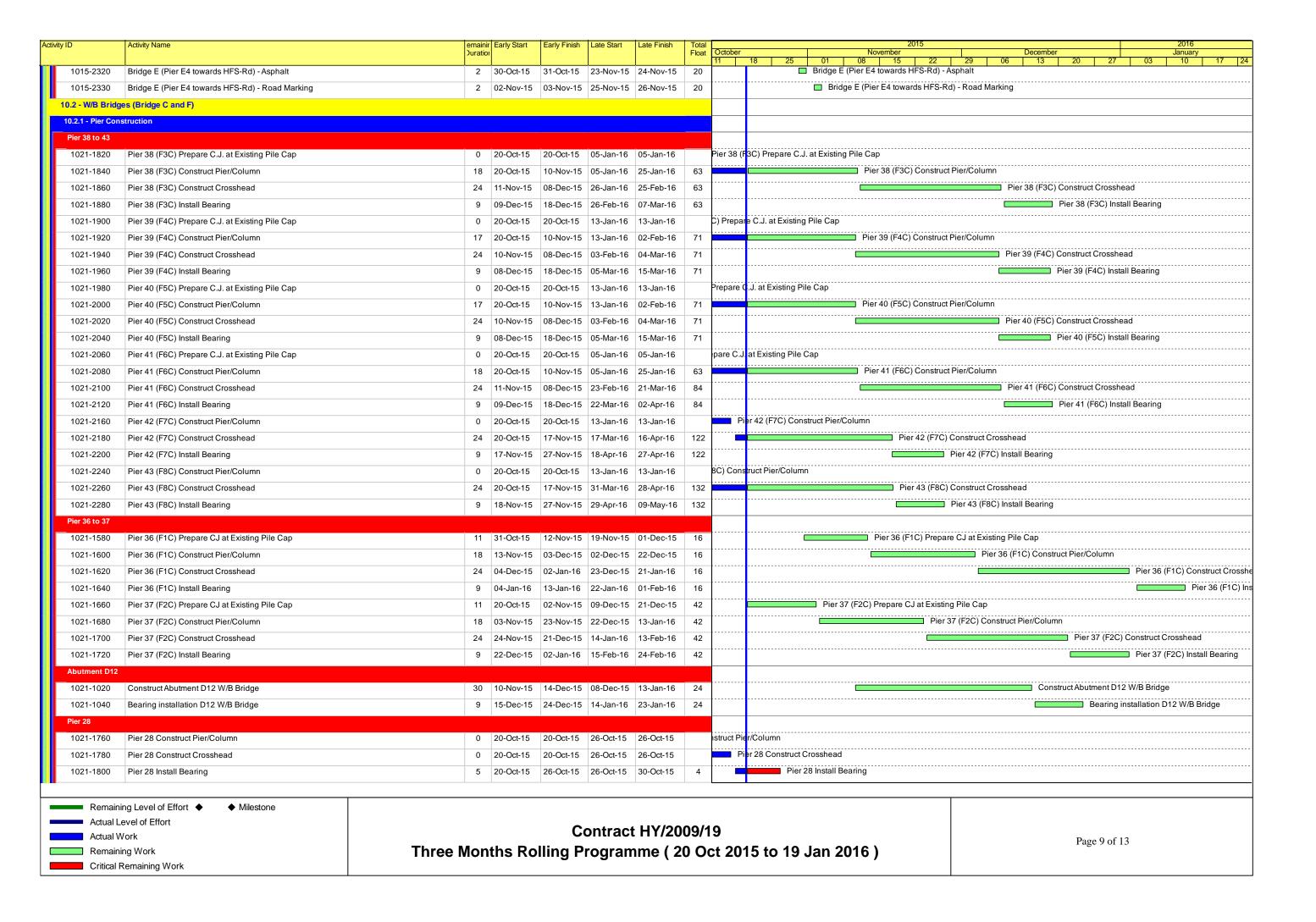


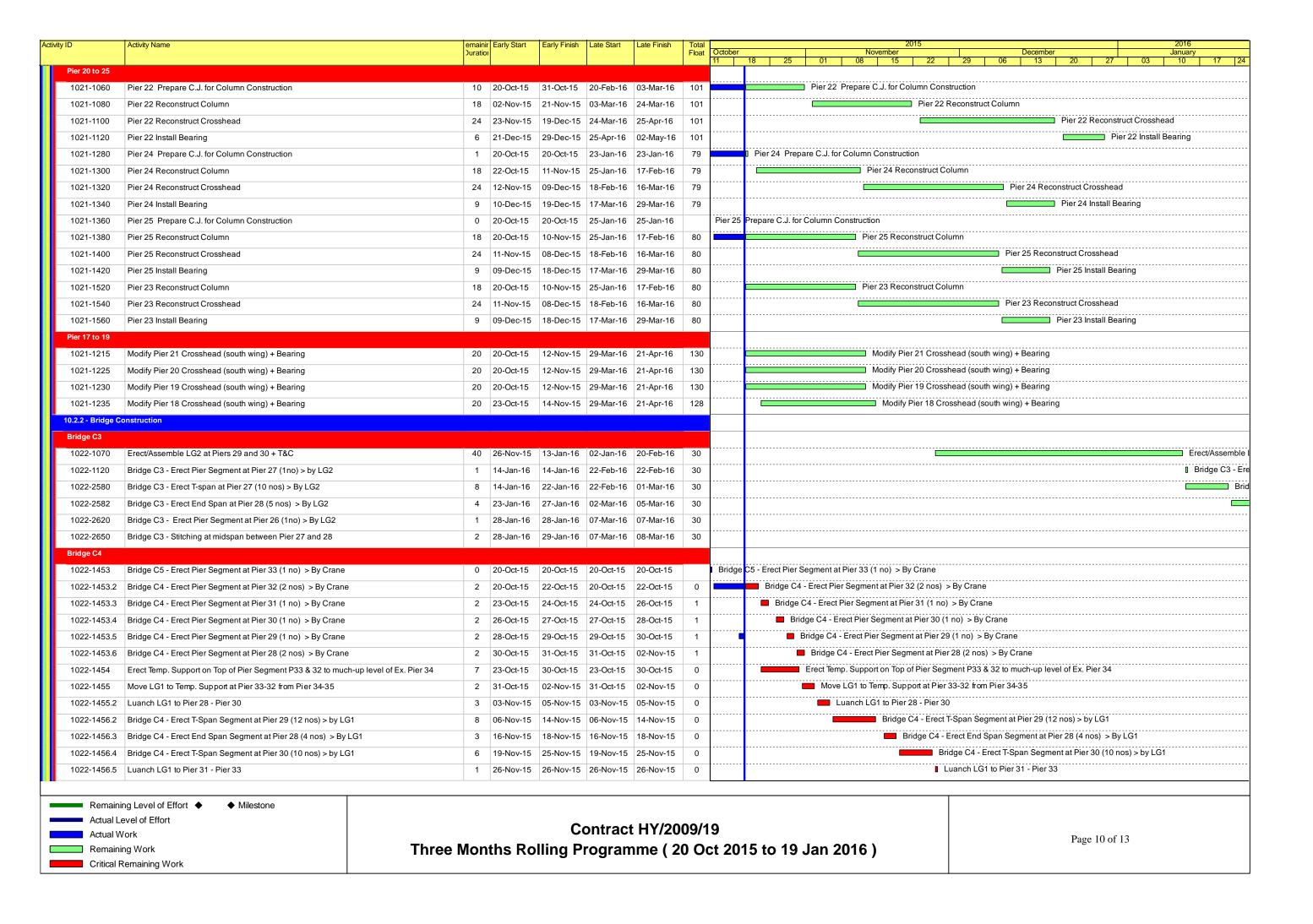


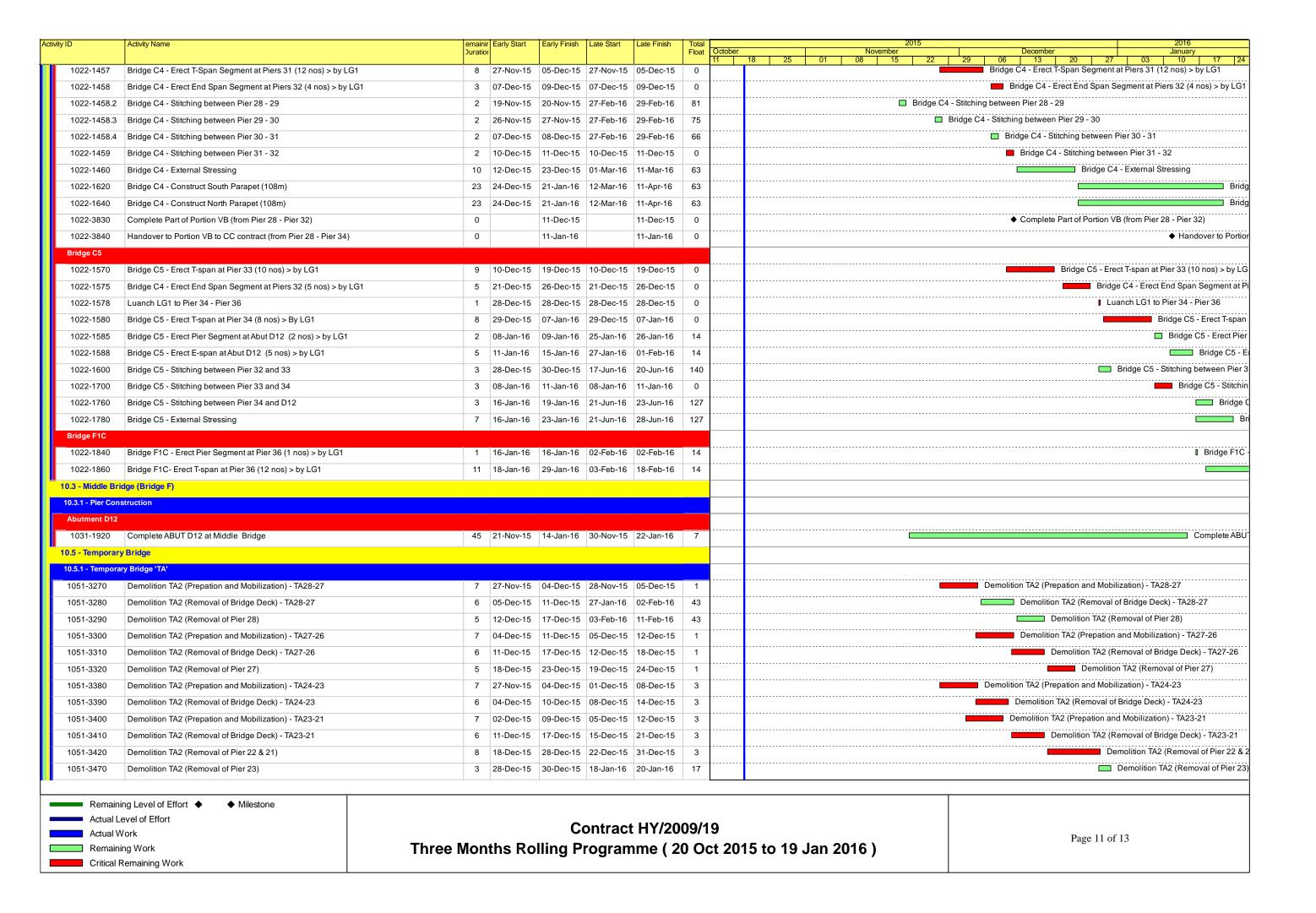
Activity ID	Activity Name		nainir Early S	Start Early Finis	h Late Start	Late Finish	Total Float October						
0700-1130	Grd. Beam - (GL > F-G) - Tie Beam Construction		0 20-0	ct-15 20-Oct-1	5 20-Oct-15	20-Oct-15	1 1	18 25 01 08 15 22 29 06 13 20 27 03 10 17 Grd. Beam - (GL > F-G) - Tie Beam Construction					
	Grd. Beam - (GL > F-G) - Backfill		3 20-00	ct-15 23-Oct-1	5 22-Oct-15	24-Oct-15	1	Grd. Beam - (GL > F-G) - Backfill					
	Grd. Beam - (GL > F-G) - (Part A) - Blinding Layer Casting		1 24-00		5 26-Oct-15		1	☐ Grd. Beam - (GL > F-G) - (Part A) - Blinding Layer Casting					
	Grd. Beam - (GL > F-G) - (Part A) - H-Pile Trimming / Cutting Ca	sing	1 26-00	ct-15 26-Oct-1	5 27-Oct-15	27-Oct-15	1	■ Grd. Beam - (GL > F-G) - (Part A) - H-Pile Trimming / Cutting Casing					
	Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U I			ct-15 27-Oct-1			1	■ Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U Bars Welding					
	Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing		3 28-00		5 29-Oct-15		1	Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing					
	Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection		2 31-00			5 03-Nov-15	1	Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection					
	Grd. Beam - (GL > F-G) - (Part A) - Concreting			ov-15 03-Nov-			1	■ Grd. Beam - (GL > F-G) - (Part A) - Concreting					
	Grd. Beam - (GL > F-G) - (Part A) - Formwork Removal			ov-15 04-Nov-			1	■ Grd. Beam - (GL > F-G) - (Part A) - Formwork Removal					
	Grd. Beam - (GL > F-G) - (Part B) - Blinding Layer Casting			ct-15 20-Oct-1			Beam - (GL > F-G) - (Part B) - Blinding Layer Casting					
	Grd. Beam - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Ca		0 20-00		5 29-Oct-15		`	n - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Casing					
	Grd. Beam - (GL > F-G) - (Part B) - Capping Plate Welding / U I		0 20-00		5 29-Oct-15			eam - (GL > F-G) - (Part B) - Capping Plate Welding / U Bars Welding					
	Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing			ct-15 20-Oct-1				Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing					
	Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection		2 20-00		5 29-Oct-15		7	Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection					
	, , , ,							Grd. Beam - (GL > F-G) - (Part B) - Concreting					
	Grd. Beam - (GL > F-G) - (Part B) - Concreting		1 23-00		5 31-Oct-15		7	☐ Grd. Beam - (GL > F-G) - (Part B) - Concreting ☐ Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal					
	Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal		1 24-00		5 02-Nov-15		7						
	Grd. Beam - (GL > K-L) - Backfill		0 20-0		5 27-Oct-15		am - (GL	> K-L) - Backfill - > K-L) - Removal of existing Sheet Pile					
	Grd. Beam - (GL > K-L) - Removal of existing Sheet Pile		0 20-0	ct-15 20-Oct-1	5 27-Oct-15	27-Oct-15							
0700-1310	Grd. Beam - (GL > K-L) - Blinding Layer Casting		0 20-0	ct-15 20-Oct-1	5 27-Oct-15	27-Oct-15	Beam - (GL > K-L) - Blinding Layer Casting n - (GL > K-L) - H-Pile Trimming / Cutting Casing					
0700-1320	Grd. Beam - (GL > K-L) - H-Pile Trimming / Cutting Casing		0 20-0	ct-15 20-Oct-1	5 27-Oct-15	27-Oct-15	Grd. Bear	n - (GL > K-L) - H-Pile Trimming / Cutting Casing					
0700-1330	Grd. Beam - (GL > K-L) - Capping Plate Welding / U Bars Weld	ing	0 20-0	ct-15 20-Oct-1	5 27-Oct-15	27-Oct-15	Grd. I	Beam - (GL > K-L) - Capping Plate Welding / U Bars Welding Grd. Beam - (GL > K-L) - Reinforcement Fixing					
0700-1340	Grd. Beam - (GL > K-L) - Reinforcement Fixing		1 20-0	ct-15 20-Oct-1	5 27-Oct-15	27-Oct-15	5	Grd. Beam - (GL > K-L) - Reinforcement Fixing					
0700-1350	Grd. Beam - (GL > K-L) - Formworks Erection		3 22-00	ct-15 24-Oct-1	5 28-Oct-15	30-Oct-15	5	Grd. Beam - (GL > K-L) - Formworks Erection					
0700-1360	Grd. Beam - (GL > K-L) - Concreting		1 26-0	ct-15 26-Oct-1	5 31-Oct-15	31-Oct-15	5	■ Grd. Beam - (GL > K-L) - Concreting					
0700-1370	Grd. Beam - (GL > K-L) - Formwork Removal		1 27-00	ct-15 27-Oct-1	5 02-Nov-15	02-Nov-15	5	■ Grd. Beam - (GL > K-L) - Formwork Removal					
0700-1380	Storm Water Drain at Portion VB		5 21-No	ov-15 26-Nov-	5 02-Dec-15	07-Dec-15	9	Storm Water Drain at Portion VB					
0700-1390	Install Irrigation Watermain within Portion V		5 21-No	ov-15 26-Nov-	5 08-Dec-15	12-Dec-15	14	Install Irrigation Watermain within Portion V					
0700-1400	Construction of pile cap for PC21		0 20-0	ct-15 20-Oct-1	5 24-Dec-16	24-Dec-16		Construction of pile cap for PC21					
0700-1410	Construction of pile cap for PC22		0 20-0	ct-15 20-Oct-1	5 24-Dec-16	24-Dec-16	nstruction	of pile cap for PC22					
0700-1420	Construction of Column for Landscape Dect at PC21 & 22 up t	o Gnd Level	18 10-No	ov-15 30-Nov-	5 24-Dec-16	3 13-Jan-17	339	Construction of Column for Landscape Dect at PC21 & 22 up to Gnd Leve					
0700-1430	Install underground drainage at Portion VB		7 21-No	ov-15 28-Nov-	5 30-Nov-15	07-Dec-15	7	Install underground drainage at Portion VB					
0700-1440	Construct Road Pavement Between P31-32 within Porion VB i	ncl sub-base	21 04-De	ec-15 29-Dec-	5 08-Dec-15	02-Jan-16	3	Construct Road Pavement Betw					
0700-1450	Remove Temp Container/Storage within Admin Area		9 30-No	ov-15 09-Dec-	5 22-Dec-15	5 02-Jan-16	19	Remove Temp Container/Storage within Admin Area					
0700-1460	Erect Temporary/Removable Hoarding along portion VB		9 30-De	ec-15 09-Jan-1	6 04-Jan-16	13-Jan-16	3	Erect Temporary					
	Modify Temporary Support of Pier obstructing construction of A	DB along Portion VB	25 05-No	ov-15 03-Dec-	5 11-Oct-19	08-Nov-19	1179	Modify Temporary Support of Pier obstructing construction of ADB alc					
08 - SECTION 5													
	Wall 'F' Substructure												
	Retaining Wall F > Temp Excav Support/Open cut Excav work	3	18 20-O	ct-15 10-Nov-	5 08-Jun-16	29-Jun-16	190	Retaining Wall F > Temp Excav Support/Open cut Excav works					
	Retaining Wall F > Excavation Works for Pile caps		21 28-00		5 16-Jun-16		190	Retaining Wall F > Excavation Works for Pile caps					
	Construction of pile cap for Retaining Wall F @ PC8	21 30-0		5 18-Jun-16		190	Construction of pile cap for Retaining Wall F @ PC8						
	Construction of pile cap for Retaining Wall F @ PC9			ov-15 09-Nov-				of pile cap for Retaining Wall F @ PC9					
	Construction of pile cap for Retaining Wall F @ PC10			ov-15 09-Nov-				of pile cap for Retaining Wall F @ PC10					
	Construction of pile cap for Retaining Wall F @ PC11			ov-15 09-Nov-				of pile cap for Retaining Wall F @ PC11					
0010-1720	Constitution of pile out for inclaiming wall is FOTI		3 03-140	7. 10 03-INUV-	20-Juli-10	20-Juli-10	1104 40401						
Demoisis	and available of the state A Milestone							1					
`	ng Level of Effort ◆ Milestone evel of Effort												
Actual Wo					Contrac	t HY/20	09/19						
Remaining		Three Ma	onthe	Rolling	Program	nme (2	0 Oct 201	Page 6 of 13					
	-												

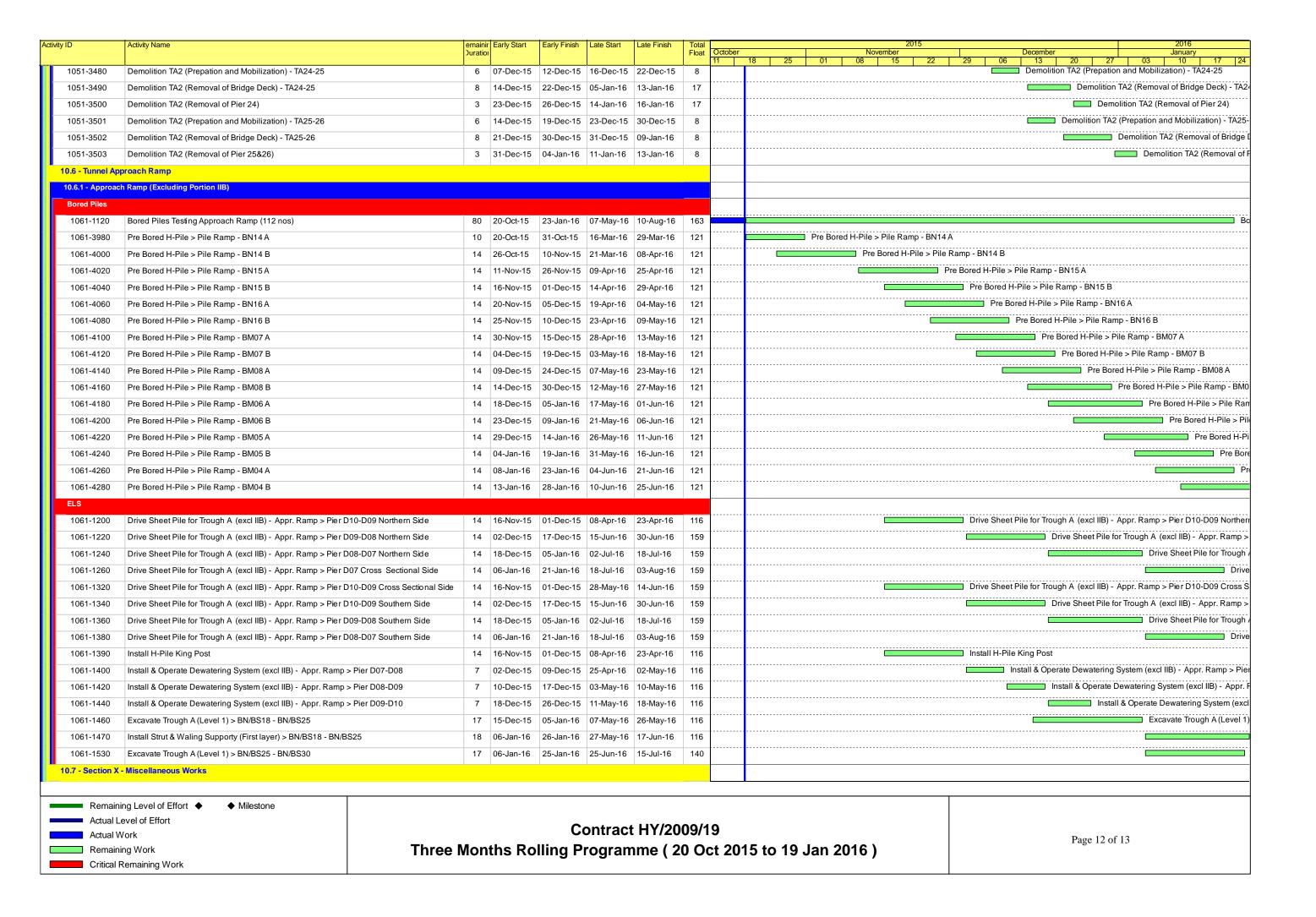


Activity ID	Activity Name	emainir Juratior	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	
10.1.4 - Bridge E	/ Hing Fat Slip Road							11	18 25 01 08 15 22 29 06 13 20 27 03 10 17
Bridge Construc	ction								
1014-1880	Construction (Pier E4 - Pier E2) > Construct Crosshead + Bearing at Pier E3	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		(Pier E4	24 Pier E2) > Construct Crosshead + Bearing at Pier E3
1014-1900	Construction (Pier E4 - Pier E2) > Modification of Crosshead + Bearing at Pier E4 & E2	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19	r	F4 - Pie	Pier F2) > Modification of Crosshead + Rearing at Pier F4 & F2
1014-1920	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15	ļ ,	ction (Pi	Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2
1014-1940	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Constru	trubion (Digs E4 Digs E2) > Ergot 2 pag Dogma > Digs E4 E2
1015-1950	Bridge E (Pier E2 - E3) - Planking	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		■ Bridg	dge E (Pier E2 - E3) - Planking
1015-1960	Bridge E (Pier E2 - E3) - Scaffolding	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15			Table F (D) - FO FO O - #-Ub-
1015-1970	Bridge E (Pier E2 - E3) - Soffit Formworks	1	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15	4		Bridge E (Pier E2 - E3) - Scarrolding Bridge E (Pier E2 - E3) - Soffit Formworks
1015-1980	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixing	3	22-Oct-15	24-Oct-15	27-Oct-15	29-Oct-15	4		Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixing
1015-1990	Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Shutter	1	24-Oct-15	24-Oct-15	29-Oct-15	29-Oct-15	4		■ Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Shutter
1015-2000	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concreting	1	26-Oct-15	26-Oct-15	30-Oct-15	30-Oct-15	4		■ Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concreting
1015-2010	Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger platform (Sea Side)	5	27-Oct-15	31-Oct-15	31-Oct-15	05-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger platform (Sea Side)
1015-2020	Bridge E (Pier E2 - E3) - (Wing Extension) - Rebar fixing	3	02-Nov-15	04-Nov-15	06-Nov-15	09-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Rebar fixing
1015-2030	Bridge E (Pier E2 - E3) - (Wing Extension) - Install shutter	1	04-Nov-15	04-Nov-15	09-Nov-15	09-Nov-15	4		■ Bridge E (Pier E2 - E3) - (Wing Extension) - Install shutter
1015-2040	Bridge E (Pier E2 - E3) - (Wing Extension) - Concreting	1	05-Nov-15	05-Nov-15	10-Nov-15	10-Nov-15	4		■ Bridge E (Pier E2 - E3) - (Wing Extension) - Concreting
1015-2050	Bridge E (Pier E2 - E3) - Parapet - Stage 2	6	06-Nov-15	12-Nov-15	11-Nov-15	17-Nov-15	4		Bridge E (Pier E2 - E3) - Parapet - Stage 2
1015-2060	Bridge E (Pier E2 - E3) - Duct Laying - Satage 2	6	06-Nov-15	12-Nov-15	12-Nov-15	18-Nov-15	5		Bridge E (Pier E2 - E3) - Duct Laying - Satage 2
1015-2070	Bridge E (Pier E2 - E3) - M.J	2	13-Nov-15	14-Nov-15	19-Nov-15	20-Nov-15	5		■ Bridge E (Pier E2 - E3) - M.J
1015-2080	Bridge E (Pier E2 - E3) - L3 Railing - Stage 2	3	13-Nov-15	16-Nov-15	18-Nov-15	20-Nov-15	4		Bridge E (Pier E2 - E3) - L3 Railing - Stage 2
1015-2090	Bridge E (Pier E2 - E3) - Asphalt	3	17-Nov-15	19-Nov-15	21-Nov-15	24-Nov-15	4		Bridge E (Pier E2 - E3) - Asphalt
1015-2100	Bridge E (Pier E2 - E3) - Road Marking	2	20-Nov-15	21-Nov-15	25-Nov-15	26-Nov-15	4		■ Bridge E (Pier E2 - E3) - Road Marking
1015-2110	Bridge E (Pier E2 - E3) - Parapet - Stage 1	6	27-Oct-15	02-Nov-15	04-Nov-15	10-Nov-15	7		P. I. F. (P FO. FO. P O 4
1015-2120	Bridge E (Pier E2 - E3) - Duct Laying - Satage 1	6	27-Oct-15	02-Nov-15	05-Nov-15	11-Nov-15	8		Bridge E (Pier E2 - E3) - Parapet - Stage 1 Bridge E (Pier E2 - E3) - Duct Laying - Satage 1
1015-2130	Bridge E (Pier E2 - E3) - L3 Railing - Stage 1	4	03-Nov-15	06-Nov-15	13-Nov-15	17-Nov-15	9		Bridge E (Pier E2 - E3) - L3 Railing - Stage 1
1015-2140	Bridge E (Pier E3 - E4) - Planking	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19	9	e E (Pier	ier E3 - E4) - Planking
1015-2150	Bridge E (Pier E3 - E4) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		■ Bridg	dge E (Pier E3 - E4) - Scaffolding
1015-2160	Bridge E (Pier E3 - E4) - Soffit Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19			Bridge E (Pier E3 - E4) - Soffit Formwork
1015-2170	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Rebar Fixing	2	20-Oct-15	22-Oct-15	31-Oct-15	02-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Rebar Fixing
1015-2180	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Shutter	1	22-Oct-15	22-Oct-15	02-Nov-15	02-Nov-15	9		□ Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Shutter
1015-2190	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Concreting	1	23-Oct-15	23-Oct-15	03-Nov-15	03-Nov-15	9		
1015-2200	Bridge E (Pier E3 - E4) - Parapet	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Parapet
1015-2210	Bridge E (Pier E3 - E4) - Drain Pipe Laying	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Drain Pipe Laying
1015-2220	Bridge E (Pier E3 - E4) - M.J	2	31-Oct-15	02-Nov-15	11-Nov-15	12-Nov-15	9		Bridge E (Pier E3 - E4) - M.J
1015-2230	Bridge E (Pier E3 - E4) - L3 Railing	7	03-Nov-15	10-Nov-15	13-Nov-15	20-Nov-15	9		Bridge E (Pier E3 - E4) - L3 Railing
1015-2240	Bridge E (Pier E3 - E4) - Asphalt	3	11-Nov-15	13-Nov-15	21-Nov-15	24-Nov-15	9		Bridge E (Pier E3 - E4) - Asphalt
1015-2250	Bridge E (Pier E3 - E4) - Road Marking	2	14-Nov-15	16-Nov-15	25-Nov-15	26-Nov-15	9		Bridge E (Pier E3 - E4) - Road Marking
1015-2260	Bridge E (Pier E4 towards HFS-Rd) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Bridge E	e E (Pier E4 towards HFS-Rd) - Scaffolding
1015-2270	Bridge E (Pier E4 towards HFS-Rd) - Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		E	Bridge E (Pier E4 towards HFS-Rd) - Formwork
1015-2280	Bridge E (Pier E4 towards HFS-Rd) - Wing Extension	1	20-Oct-15	20-Oct-15	13-Nov-15	13-Nov-15	20		☐ Bridge E (Pier E4 towards HFS-Rd) - Wing Extension
1015-2290	Bridge E (Pier E4 towards HFS-Rd) - Parapet	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Parapet
1015-2300	Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying
1015-2310	Bridge E (Pier E4 towards HFS-Rd) - L3 Railing	3	27-Oct-15	29-Oct-15	19-Nov-15	21-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - L3 Railing
Daniel of	ng Lovel of Effort A Milestone								
	ng Level of Effort ◆ Milestone evel of Effort								
Actual W				Co	ontract	t HY/20	09/19	9	P 0 -612
Remaini		Mont	ths Ro	llina Pı	rogran	nme (2	0 Oc	t 20	O15 to 19 Jan 2016)
Critical R	Remaining Work			J	J	- , -		-	,









rity ID	Activity Name	emainir	Early Start	Early Finish	Late Start	Late Finish	Total		2015 2016
,		Duration	. ,	, ,			Float	October	November December January
								11	18 25 01 08 15 22 29 06 13 20 27 03 10 17
10.7.1 - TTM St	ages								
1071-1240	TTM Stage 5 - TMLG Consultation and Endorsement	37	20-Oct-15	25-Nov-15	21-Oct-15	26-Nov-15	1		TTM Stage 5 - TMLG Consultation and Endorsement
1071-1260	TTM Stage 5 - TTM Enabling Works	1	26-Nov-15	26-Nov-15	27-Nov-15	27-Nov-15	1		■ TTM Stage 5 - TTM Enabling Works
1071-1280	TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to Pier E2' to Release "TA2"	0		26-Nov-15		27-Nov-15	1		◆ TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to
11 - SECTIOI	11 OF THE WORKS								
11.2 - Roadwoi	ks								
1110-2710	Watermains at Portion XIIA - Stage 3 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		- Stage 3	(parking Meters)
1110-2720	Watermains at Portion XIIA - Stage 4 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		nains at F	ortion XIIA - Stage 4 (parking Meters)
1110-2730	Watermains at Portion XIIA - Stage 5 (parking Meters)	3	20-Oct-15	23-Oct-15	16-Nov-15	18-Nov-15	22		Watermains at Portion XIIA - Stage 5 (parking Meters)
1110-2740	Watermains at Portion XIIA - Stage 6 (King Ming Rd. junction)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		ortion XII	- Stage 6 (King Ming Rd. junction)
1110-2750	Watermains at Portion XIIA - Stage 7 (King Ming Rd. junction & connection pt.)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		■ Wate	rmains at Portion XIIA - Stage 7 (King Ming Rd. junction & connection pt.)
1110-2760	Watermains at Portion XIIA - Stage 8 (Run-in/out to carpark at Victoria Ctr.)	2	22-Oct-15	23-Oct-15	17-Nov-15	18-Nov-15	22		☐ Watermains at Portion XIIA - Stage 8 (Run-in/out to carpark at Victoria Ctr.)
1110-2770	Watermains at Portion XIIA - Stage 9 (Run-in/out to carpark at Victoria Ctr.)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22		Watermains at Portion XIIA - Stage 9 (Run-in/out to carpark at Victoria Ctr.)
1110-2780	Watermains at Portion XIIA - Stage 10 (motor cycle parking)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22		Watermains at Portion XIIA - Stage 10 (motor cycle parking)
1110-2790	Watermains at Portion XIIA - Stage 11 (motor cycle parking)	12	09-Nov-15	21-Nov-15	04-Dec-15	17-Dec-15	22	·	Watermains at Portion XIIA - Stage 11 (motor cycle parking)
1110-2800	Watermains at Portion XIIA - Testing & commissioning of Watermains	4	23-Nov-15	26-Nov-15	18-Dec-15	22-Dec-15	22		Watermains at Portion XIIA - Testing & commissioning of Watermains
1110-2810	Watermains at Portion XIIA - Reinstatement of Pavement at connection Pt.	4	27-Nov-15	01-Dec-15	23-Dec-15	28-Dec-15	22	 	Watermains at Portion XIIA - Reinstatement of Pavement at connection P

3-0					La	ayout: CWB - Wo	rking Layo	ut for DWP Rev M								Date Pri	inted 26-Sep-1
ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float					015				2016	
Y/2009/1	5 - Works Pro	gramme Rev. M (DD:20-Sep-12	1			-	1000	Q4		Q1	Q2	Q3		Q4	Q1	Q2	Q3
		Adit - Based on Alternative Meth							-								
	ent of Breakwater	A STATE OF THE OWNER,	od														
						V.01-11											
S3_54840	Reinstatement wo	100.00000000000000000000000000000000000	7d/wk-1	60d	21-Feb-14 08 A		-85d	Reinstatem	ent works	-west side							
S3_60085	Reinstatement wo	orks east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstatem	ent work	east side						1	
S3_54845	Completion of Sec	ction 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section	n 3 (KD8) in EV	A Area (Alterna	tive Method)					1
Vorks in T	S1/TS2 - OHVI	D and Cable Trough/Maintenance	Walkway		-	5.		100									1
rs2 - OHVD	and Cable Trough	/Maintenance Walkway															
OHVD Slab a	and Cable Trough C	Construction											-				
S3_6210	TS2 - OHVD/ Cab	ble trough	7d/wk-1	40d	20-May-14 08 A	30-Sep-14 18	-85d	TS2 - OHV	D/ Cable	trough							
S3_6212	Completion of Sec	ction 3 - TS1/TS2 Area (below-6mpd) KD8)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section	n 3 - TS1/TS2/	krea (below -6n	npd) KD8)					
Vorks in T	S4/ME4 Area (Portion 14A, 14B, 15, 23)			- 1				-		0. 22, 0.00. 20		-				1
	temoval of Tempor	McDate- Arghentingerer							-								1
	Works at TZ6	ary recommunity										-					
										1							
	eawall and Reclama																
A-2010	Installation of seav	wall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d	Installation of	of seawall	blocks (Qty: 24	5 nos.)						
A-2020	Soil Backfilling up	to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d	I Soil Backfillin	ng up to -	2.45mPD (Qty:3	3,000 cu.m.)		1				
A-2030	Utilities installation	for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	I: Utilities insta	allation for	Mined Tunnel			1				
A-2040	Soil backfilling up t	to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	1 Soil backfillin	ng up to g	round level (Qt	y:2,000 cu.m.)		1				
A-2050	Site dearance		7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site dearar	nce	1							
A-2060	Handover to MTR	3	7d/wk-2	Od		30-Sep-14 18	-305d	Handover t	O MTR	1							
Removal of	Temporary Reclama	ation at TS4/ME4		1					-	- 1			+		-		1-
Stage 5 (2c	ones A, D & F - TS4-	-D33 to B-26, SCL2 & ME4-D19 to D13)		-	_	_	-		-			-	-	_			
A-3000	D-Wall horizontal	cutting (Qty: 62 pcs.)	7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14 18	-340d	D-Wall horiz	ontal cutt	ng (Oty: 62 pcs	1		į				
	one C - P4, ME4-D12		7.550			-0.500 (0.7)				og (my) og pa	7						
			70.40													Î	
A-3011	(Zones C)	f temporarly reclamation and seawall blocks	7d/wk-2		31-Aug-14 08 A	02-Oct-14 18	-353d			emporarly reclar		wall blocks (Zo	nes C)				
A-3030	D-Wall vertical cu	itting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall ve	rtical cutt	ng (Qty: 15 pcs.	.)					1	
A-3040	D-Wall horizontal	cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall h	orizontal	cutting (Qty: 20	pcs.)						
Summa	ary Bar	1 of 18								Prep	ared by William	Caluza					
Actual L	Level of Effort	China Sta	te Constru	ction En	gineering (Hon	g Kong) Ltd			Date 26-Sen	1st submission	Revision	Checked	Approved				
Actual V							. 200.22	201000	20-Sep	Tat additiiSSX	AT.			.000	中國建築	工程(善港)有阻公
	ing Work Remaining Work	Contract No. HY/2009/15 - Central	Wan Chai E	By Pass -	Tunnel (Cause	eway Bay Typ	hoon Sh	elter Section)						DOUGO	CHINA STATE CONSTI	RUCTION ENGINEERIN	G (HONG KONG
	Vernaming AADLK		MODICO	DDOCD	AMME REV.												

ty ID	Activity Name		Calendar	Original Duration	Start	Finish	Total			20	115			2016	
Stanp 7 /2m	nes C & F . ME4.Do	6 to D01, SCL1 & TS4-D251		Duranon			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
															1
A-4000	Marine removal of (Zones C & E)	temporarly reclamation and seawall blocks	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	of temporarly re	clamation and seav	vall blocks (Zone	sC&E)			
A-3090	Hole coring (Qty: 4	4 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cut	ting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	■ D-Wall vertice	cutting (Qty: 27	pcs.)					
A-4020	D-Wall horizontal of	outting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d	D-Wall horiz	ontal cutting (Qty	37 pcs.)					
Stage 9 (Zo	ne I - TS4-D01 to TS	4-D08)										1			-
A-3050	Remaining remova	al of temporary reclamation (Zone I)	7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 18	-342d	Pamainian rama	val of tames area.	an elemention (7 and				1	
A-3060								1		reclamation (Zone	1)	1		1	
	Hole coring (Qty: 2		7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	y: 25 nos)						1
A-3070	D-Wall vertical cut	ling (Qty: 14 pcs.)	7d/wk-2	3d	07-Od-14 08	09-Oct-14 18	-342d	D-Wall vertical	cutting (Qty: 14 p	pcs.)				0.00	1
A-3080	D-Wall horizontal o	cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hore	zontal cutting (Qt	y: 24 pcs.)					
Stage 8 (Zoi	nes 6 & K-TS4-D2	4 to TS4-D15)		-										1	
A-4040	Relocation of RHK	YC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating pont	toon					į
A-4050	Hole coring (Qty: 2	7 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Qt	r. 27 nos)						1
A-4060	Marine removal of	temporary reclamation and seawall blocks	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	oval of temporary	reclamation and se	eawall blocks (Zo	ne G & K)			1
A-4070	(Zone G & K) D-Wall vertical cutt	ting (Qty: 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d		tical cutting (Qty:		1				
A-4080		outting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d							*	
	one J - TS4-D09 to 1	28, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17	7 W W 2	74	20-04-14-00	01-1400-14 16	-3520	D-yvaii no	rizontal cutting (C	(ty: 25 pcs.)				5	
Stage 10 (Zo	one a - 154-Dus to 1	(54-1/14)													
A-4090	Land removal of te	emporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	of temporary re	clamation (Zone J)				ì	
A-5000	Hole coring (Qty: 3	2 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	Hole coring	(Qty: 32 nos)						
A-5010	Marine removal of	temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d	Marine rer	noval of tempora	ry reclamation (Zor	ne J)				
A-5020	D-Wall vertical cutt	ling (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall v	ertical cutting (Qt	y: 20 pcs.)					
A-5030	D-Wall horizontal c	cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	orizontal cutting	(Oty: 26 nes.)					1
Stage 13 - Ph	nase 3 Mooring				111111111111111111111111111111111111111	1000000				, -, -, p-,					
A-5050	Final trimming of se	ea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Final trim	ming of sea bed I	evel				-	
A-5060	Phase 3 Mooring		7d/wk-2	6d	06-Nov-14 08	11-Nov-14 18	-347d	Phase 3	Mooring						
A-5040	Reinstatement of e	xisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d	Reinst	tement of exisitin	g seawall (Zones I	& J)				
Stage 12 - Re	e-provisioning of Je	itty													
S6_5258		e Crane (until permanent re-provision of Jetty	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d		Provision of Me	obile Crane (until pe	ermanent re-prov	rision of Jetty is	completed)		
A-6010		d consent for commencement of	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submissi	on and consent fo	or commencement	of superstructure				
2.21.	superstructure	2 of 18			0.0						5.5	1		<u> </u>	1
Summar	ry Bar evel of Effort	150						- D	ate	epared by William (Revision	Checked Ac	proved			
Actual V		China Sta	te Construc	tion Eng	gineering (Hong	Kong) Ltd			Sep 1st submis		The state of the				
Remaini		Contract No. HV/2000/45 Contract	Man Chai D	, Dann	Tunnel / Cours	way Day To-	hoor Ch	alter Continu				.010		工程(香港)	
	ng vvork Remaining Work	Contract No. HY/2009/15 - Central \	van Chai B	y Pass -	runner (Cause	way Bay Typi	ioon She	elter Section)				0500	CHINA STATE CONSTR	UCTION ENGINEERING	HONG KONG
		1	NORKS	ROGE	AMME REV.	M									
 Milestone 		1	- UNITO F	. LOUN	THE V.	144									

ID	Activity Name	Calendar	Original	Start	Finish	Total				2015		_	elle -	2016	
A 8012	O. Analisai and A. Analisai an		Duration			Float	Q4		Q1 Q2	Q3		Q4	Q1	Q2	Q3
A-6012	Submission of performance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submis	ssion	of performance report	1	-			-55	QU
A-6020	Erection of working platform for jetty beams and reinstate the floating portoon	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	■ Ered	ction	of working platform for jetty beam	and reinstate	the floating	portoon			
A-6040	BA10 submission for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BA1	10 sul	bmission for authorized signatory a	and subcontrac	tor				
A-6030	Jetty beams construction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d	= J	Jetty b	peams construction		1				
A-6052	Construction of floating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Cor	nstruction of floating pontoon	Ē	II.				
A-6050	BA13 submission + 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	_		BA13 submission + 14-day cube te	est results					
A-6060	E&M and accessories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d		8	E&M and accessories installation	Ē					
A-6070	Handover to RHKYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d			Handover to RHKYC						1
Stage 11 - Cons	struction of TZ4							-							
A-6080	South side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	Court vide								
						1	The state of the s		ng rockfill and levelling stone (Qty.						
	South side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Od-14 18	-339d			tall seawall blocks (Qty: 255 nos.)						
	South side - general fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Od-14 08	13-Oct-14 18	-339d	South side	e - ge	eneral fill (Qty: 2,000 cu.m.)						
A-7010	North side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North	side -	- laying rockfill and levelling stone	(Qty: 1,550 au	.m)				
A-7020	North side - install seawall blocks (Qty. 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	■ Norti	h side	- install seawall blocks (Qty: 255	nos.)					
A-7030	North side - general fill (Qty:2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 Nort	th side	e - general fill (Qty:2,000 cu.m.)						
A-7040	Handover to contract TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Han	idove	r to contract TS3/SR8						
TS4/ME4, Remo	oval of Temporary Reclamation		-					-		-	-				
526875	Completion of Section 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mplet	tion of Section 2 (With ME4 option	(KD7)					
S26890 (Completion of Section 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	1	1	tion of Section 7B (ME4) (KD13)		Ť				
S4 - OHVD / C	able Trough							-			-				
S5_6185	TS4 (incl, TS4+) - OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	00 Feb 15 10	4004				1					
	opening at TZ4)				06-Feb-15 18	195d		ı	TS4 (ind. TS4+) - OHVD	1	1				
	TS4 (incl. TS4+) - Cable Trough (access through temp. opening at TZ4)	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d			TS4 (ind. Ts	S4+) - Cable Ti	rough (acce	ss through	temp, opening at	TZ4)	
S5_59850 C	Completion of Section 5 - TS4/ME4 Area (KD10), below -20mPD	7d/wk-2	Od		02-Nov-15 18*	0d		Ш			4	Comple	tion of Section 5 - 1	\$4/ME4 Area (KD	10), below -2
orks in TPC	CWAE Area (Portion 20A, 20B)							11							
ternoval of Ten	nporary Reclamation							1			-	_			
Removal of Tem	nporary Reclamation & Form TZ5					-	1	+		1					
S87870 F	Remove general fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove or	enera	Il fill /sea wall block						
S67675 E	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d			Ill saw cutting (1st D Wall cut on 2	lun 2014					
	Form TZ5	7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d			m serv coming (rat to vival) cut on 2.	Sum Zu 14)					
~~~		/ GINNE!	100	20-3ep-14 00	14-00-14-16	-3040	Form TZ5				1				
Summary B								_	Prepared by William						
Actual Leve	China Stat	e Construc	tion Eng	ineering (Hong	Kong) Ltd			26-S	ep 1st submission	Checked	Approved				
Actual Work Remaining \	N							20.0	- Proceedings and 1			THE	中國運算	工程(香港)	有阻公
	[ Table   1   1   1   1   1   1   1   1   1	ran Chai By	Pass -	unnel (Cause	way Bay Typi	noon She	elter Section)					eance		UCTION ENGINEERING	
		VORKS P	ROGR	AMME REV	M										
<ul> <li>Critical Rem</li> <li>Milestone</li> </ul>	naining Work V	VORKS P	ROGR	AMME REV.	М								San Consta	Cilo	TO VOICE LOUIS

vity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total			20	015			2016	
S67685	Achievement of KD5	741.1.0	-			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
C3V 112		7d/wk-2	Od		16-Oct-14 18	-323d	<ul> <li>Achievement</li> </ul>	of KD5	T.		1			
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	0d		27-Oct-14 18	-322d	◆ Complete F	Reinstatement o	f Vertical Seawall (ne	ear PRE Office)				
Reinstate M	ucking Out Access Shaft "C"										-	+		
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	0d	26-Mar-16 08		-102d							A Charles bearing	
S67225	works)  Cast slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d							<ul> <li>Start reinstate</li> </ul>	
S67230	Removal of vertical shaft and backfilling			Tarak Wall		1 252							Cast slab	opening at top
		6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d								Removal of ve
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d								Reinstateme
TPCWAE - O	HVD / Cable Trough			fire.	-									
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d					TPCV	VAE - Cable Trou	igh (access through	temp opening
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od							AT Area A (access	
S5_59840	opening at TZ5 & Portion 19)  Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od		02-Nov-15 18*	Od	1							
	-20mPD	THE	- 00		02-1404-15 15	od					◆ Comp	eletion of Section 5	5 - TPCWAE Area (	KD10), below-
10000	PCWAW A rea													
TPCWAW - T	emporary Reclamation						į.							
Temporary R	Reclamation -						1							
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	TPCWAW -	place levelling s	tone and tamping, S	outh side	Ē			
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d			block to +4 at South		e @ E0 mas/da			
S6_9465	nos. @ 50 nos/day)  TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	1					s. @ 50 nos/da	9)		
					100000000000000000000000000000000000000	-122d		100	ng stone and tampin					
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d	TPCW	VAW - place sea	wall blocks to +4 No	rth side (Qty:672 r	nos @ 50 nos/d	ay)	Î	
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d	TPC	CWAW - Genera	of fill to +2 within the	seawall	-			
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d	■ TP	CWAW - place	seawall blocks to +4	at the temporary	opening			
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall.	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d		TPCWAW - Ren	naining General fill to	+4 within the sea	wall			
TPCWAW - D	Diaphragm Wall													1
Diaphragm V														
							1				Ĭ.			1
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d	1	Site inves	tigation		-			
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d	=	Install gu	ride wall		-			ŧ
56_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d	-	Curtain	grout along propose	d diaphragm wall	1			į
56_9382	Set up bentonite silo/plants and equipments	7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d		Set up be	ntonite silo/plants and	d equinments				1
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d								1
		Testost	1000	55,640,3654					Diaphragm w	all construction (34	4 panels @ 3 pa	anels/ week)		į.
S6_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install shea	r pins on diaphrag	m wall			
Summar	y Bar 4 of 18								repared by William (	Caluza			38.	
	evel of Effort China State	e Construc	tion Eng	ineering (Hon	g Kong) Ltd			Sep 1st subm	Revision	Checked App	proved			
Actual W	VOTK							sep Ist subm	ISSIDII	1-1-	par	中國連禁	界工程(春港	)有阻公
Remaini	Colonial Col	an Chai By	Pass -	Tunnel ( Caus	eway Bay Typl	noon Shelt	er Section)				paner		STRUCTION ENGINEERIN	
	Remaining Work	IOBK6 D	POGP	AMME REV	N/I							The state of the		
<ul> <li>Mileston</li> </ul>	e V	ORKS P	ROGR	AMINE REV	. IVI									

B_2570   Deplayment Wild Pile late	ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float			2015			2016	
Page   1979   Carry and contracting any entering   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970	S6_9355	Install king posts	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	Q4	Q1	Q2		Q4	Q1	Q2	Q3
Supplier	S6 8970	Diaphragm Wall Pile test			100000									
	- 3-4-2	3335		1,412		03-May-15 18	-129d		Diaphra	igm Wall Pile test				
		7100010001000000000	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d		Carry out	contact/fissure gro	outing			
Part		S Works												
Second   Control   Contr	ELS Works													
59, 5975   Carry and pumping tests   769-bit   124   23 - 23-pe-10 60   65-byn-15 13   -141d   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   154   1	S6_9360	Install dewatering wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d		Install dev	vatering wells and	piezometers			
Section   Sect	S6_9365	Install inclinometers inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d		Install in	clinometers inside	D-wall			
Security Company Sect Apport   Tribute   Tri	S6_8975	Carry out pumping tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d		Carry o	ut pumping tests				
59, 500   Submit purpoing test report	S6_8980	1st Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d		■ 1st La	ayer - D Wall cond	over break if an	v & Soft Excavation		
156_8995   10stal vibrarial support	S6_9260	Submit pumping test report	7d/wk-1	1d	06-May-15 08	06-May-15 18	-137d			1		,		
96, 9990	S6_8985	1st Layer - install lateral support	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d							
Section   Following   Section   Se	\$6_8990	Install vibrating wire strain gauge	7d/wk-1	10d	16-May-15.08	26-May-15 18	-141d		1		100			
56,9000 2nd Layer - Install lateral support 7/5 Web-1 10d 29-May-15 68 07-Au-15 13 -141d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S6_8995	2nd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d		1	1/22							
### Soft Exper - D Wall concover break if any & Soft Excavation	S6_9000			M								any & Soft Excavation		
Section   Sec	S6 9005					1	3					10000		
Seg. 9015   4h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   12-Jun-15 08   22-Jun-15 18   -141d   4h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   22-Jun-15 08   05-Jul-15 18   -141d   4h Layer - Install lateral support   4h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   22-Jun-15 08   05-Jul-15 18   -141d   4h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   22-Jun-15 08   05-Jul-15 18   -141d   5h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   22-Jun-15 08   05-Jul-15 18   -141d   5h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   15-Jul-15 08   77-Jul-15 18   -141d   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   7 d/wk-1   10d   15-Jul-15 08   77-Jul-15 18   -141d   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - Install lateral support   5h Layer - D Vall conc over break if any 4. Self Excavation   5h Layer - I					1000	2000	1,000			1		if any & Soft Excavat	on	
Se, 5020   4th Layer - install lateral support   7d-We-1   10d   23-Jun-15 08   03-Jul-15 18   -141d	10. E-4101									3rd Layer - Insta	Il lateral support			
Se_9025 Sh Layer - D Wall conc over break if any & Soft Excavation 7d Index-1 10d 25-Jun-15 08 05-Jul-15 18 - 141d 58-903 Sh Layer - install lateral support 7d Index-1 10d 27-Jun-15 08 07-Jul-15 18 - 141d 58-903 Sh Layer - install lateral support 9d Index-1 10d 18-Jul-15 08 17-Jul-15 18 - 141d 58-904 Sh Layer - Install lateral support 9d Index-1 10d 18-Jul-15 08 17-Jul-15 18 - 141d 58-Jul-15 08 07-Jul-15 08 07-Jul-15 08 07-Jul-15 18 - 141d 58-Jul-15 08 07-Jul-15 08		The second secon		1	100 000 000		-141d			4th Layer - D W	all conc over bre	ak if any & Soft Excav	ation	
Se_9030 5th Layer - install lateral support  7d/wk-1 10d 27-Jun-15 08 07-Jul-15 18 -141d  Se_9035 6th Layer - install lateral support  8d bl Layer - install lateral support  7d/wk-1 10d 18-Jul-15 08 17-Jul-15 18 -141d  8th Layer - install lateral support  8th Layer - i	17		7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d			4th Layer - in:	stall lateral suppo	п		
S6_9035 6th Layer - D Wall conc over break if any & Soft Excavation 7d/wk-1 10d 08-Jul-15 08 17-Jul-15 18 -141d 18-Jul-15 08 27-Jul-15 18 -68d 6th Layer - install lateral support 7d/wk-1 10d 18-Jul-15 08 27-Jul-15 18 -68d 6th Layer - install lateral support 6th Layer - install lateral support 6th Layer - install lateral support 7d/wk-1 12d 18-Jul-15 08 27-Jul-15 18 -68d 6th Layer - install lateral support 6th Layer - install lateral support 7d/wk-1 12d 18-Jul-15 08 27-Jul-15 18 -68d 6th Layer - install lateral support 7d/wk-1 12d 18-Jul-15 08 13-Aug-15 18 -141d 7d/wk-1 12d 18-Jul-15 08 13-Aug-15 18 -98d 7d/wk-1 12d 18-Jul-15 08 13-Aug-15 18 -98d 7d/wk-1 18-Jul-15 08 13-Au	S6_9025	5th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d		- )	5th Layer - D	Wall conc over	break if any & Soft Ex	cavation	
S6_8040 6th Layer - install lateral support 7d/wk-1 10d 18-Jul-15 08 27-Jul-15 18 -68d    S6_8040   Sth Layer - install lateral support   Sth Lay	S6_9030	5th Layer - install lateral support	7d/wk-1	10d	27-Jun-15 08	07-Jul-15 18	-141d			5th Layer - in	stall lateral suppo	ort		
TPCWAW-ROCK EXCAVATION  S6_6180 Rock excavation to formation 7d/wk-1 112d 18-Jul-15 08 09-Nov-15 18 -141d Rock excavation to formation 7d/wk-1 112d 18-Jul-15 08 09-Nov-15 18 -141d Rock excavation to formation 11 Rock excavation to formation 12 Rock excavation to formation Rock excavation to formation 12 Rock excavation to formation 13 Rock excavation to formation 14 Rock excavation to formation 15 Rock excavation 15 Rock excavation to formation 15 Rock excavation 15 Roc	S6_9035	6th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			6th Layer -	D Wall conc ov	er break if any & Soft	Excavation	
Rock excavation to formation  7d/wk-1 112d 18-Jul-15 08 09-Nov-15 18 -141d  86_9370 Install tie back anchor to D- Walls (area on west side, near 7d/wk-1 25d 20-Jul-15 08 13-Aug-15 18 -69d Install tie back anchor to D- Walls (area on west side, near 7d/wk-1 20d 20-Jul-15 08 08-Aug-15 18 -69d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie back anchor to D- Walls (area on west side, near 18-9d Install tie	S6_9040	6th Layer - install lateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			6th Layer	- install lateral s	uppprt		
Install tie back anchor to D- Walls (area on west side, near Portion 11)	TPCWAW - RC	OCK EXCAVATION												_
Install tie back anchor to D- Walls (area on west side, near	S6_6180	Rock excavation to formation	7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d				Rock	excavation to format	ion	
S6_9415 Install tie back anchor to D- Walls (east area)  7d/wk-1 20d 20-Jul-15 08 08-Aug-15 18 -69d  S6_9055 Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d  **Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 0d 10-Nov-15 18 -133d	S6_9370	Install tie back anchor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d			Install				ion 11\
S6_9055 Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WDII Contractor for demolition of bulkhead at 7d/wk-2 Dd 10-Nov-15 18 -133d ◆ Provide Access to WD	S6_9415		7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d				2			
TPCWAW-CCT / OHVD  Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remaining W	S6_9055		7d/wk-2	Dd		10-Nov-15 18	-133d					the second second second		ition of buttle
Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remain	TPCWAWL CC								T.			SEE SEE SEE SEE SEE	amador for demol	mort of palkn
Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remain									į.					
Actual Work Remaining Work Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section) Critical Remaining Work	TPCWAW - CC	CT / OHVD												
Actual Work Remaining Work Critical Remaining Work Cr	Summary	/ Bar 5 of 18						T .	Prepared by William	Caluza				
Remaining Work Critical Remaining Work		China Stat	te Construc	tion Eng	ineering (Hon	a Kona) I td				Checked Ap	proved			
Critical Remaining Work  CHINA STATE CONSTRUCTION ENGINEERIN	20,000,000	DIK						26-Sep 1st sul	bmission		nne	中國連續了	理(事件)。	-80 //-
Critical Remaining Work		g Work Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel ( Cause	eway Bay Typh	oon Shelter Section)			-	eb Jee	CHINA STATE CONSTRU	CTION ENGINEERING IN	HONG KONG
			WODWO 5	2002		44						Since Since Constitu	LINST ENGINEERING IF	CHO KUIVA) I
♦ Milestone WORKS PROGRAMME REV. M	<ul> <li>Milestone</li> </ul>	V	WORKS P	KUGR.	AMME REV.	. IVI								

ivity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float			2	015			2016	
56_9070	TPCWAW Construct tunnel base slab	746.6.4		00.0 / 45.00			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		7d/wk-1	50d	23-Oct-15 08	11-Dec-15 18	-141d						TPCWAW Constru	ct tunnel base slab	
S6_9075	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d						TPCWA	V Construct tunne	wall + OHV
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (incl. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d						TPC	WAW - external v	vaterproofing
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d							WAW King post lo	
TPCWAW - F	Removal of Temporary Reclamation			12.25	1							- 1	AVVAVV King post k	ad transfer
	The state of the s													
Kemovai of	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion 11 (concurrent activities)	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d							Backfilling/Remova	of ELS/ Re
S6_9105	Remove general fill' seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08	30-Mar-16 18	-120d							Remove genera	fill/ seawall
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d	1	1					Saw	cut diaphrae
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	0d		23-May-16 18	-121d	9							
					20-11129-10-10	-1210							Comp	pletion of Se
	cable Trough/ Maintenance Walkway						1							
S6_9085	TPCWAW - Cable Trough (access through temp. opening at Portion 19)	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d							TPCWAW - Cab	le Trough (a
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	7d/wk-2	0d		25-Mar-16 18	-144d	1	1					Completion of Se	ection 5 - TF
Works in V	Van Chai PCWA (Portion 11)	-								-				
	s & Utilities Works													
71110311 11 13401					The same of the same									
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation o	Hoarding						
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock mou	nd					
S4_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry out	Site Investigation f	or BW1/BW2					
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	0d		07-Nov-14 18	-61d	♦ BW1/BV	V2 Engineers confir	mation of provisi	onal Barrettes				
Allow Acces	ss to WDII							24 1	1000			1		
S4_2785	Complete Section 4 - Portion 11 (KD9)	746.4.0	0.1		Tanking and									
		7d/wk-2	Od		10-Nov-15 18	-132d					◆ Com	olete Section 4 - Port	ion 11 (KD9)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	Od		10-Nov-15 18	-129d					Return	n Portion 11 to WDII		
Works for	Mined Tunnel (Portion 16, 17, 18)													
SR8 (Tunnel	Excavation + Lining)		_		_							+		
From West (	(TPCWAE)													
Honding Ev	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statute	and a list and												
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m @2d/m	7d/wk-1a	16d	03-Sep-14 08 A	28-Sep-14 18	164d	SR8 Heading Ex	cavation From We	st, CH 4095- 410	7 = 8m @2d/m				
Bench Exca	avalion (1.5d-2d/m, 20m separation with heading)													
A8700	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	7d/wk-1a	20d	08-Sep-14 08 A	24-Sep-14 18	148d	SR8 Bench Exca	vation From West,	CH 4055- 4065 =	10m				
Summai	6 of 18						4	Pen	pared by William	Caluza				
	ayal of Effort	Carete	Man F	deserte - H				Date	Revision	Checked App	roved			
Actual V	China Stat	e Construc	tion Eng	ineering (Hon	g Kong) Ltd		26-	Sep 1st submiss	ion		ner	中國運禁	理(華港)	<b>声阳小</b>
	ing Work Contract No, HY/2009/15 - Central V	Van Chai B	y Pass -	Tunnel ( Caus	eway Bay Typi	hoon Shelt	ter Section)				050Ec	CHINA STATE CONSTRU		
	Remaining Work	VODKE D	PAGE	AMME REV	M									
<ul> <li>Mileston</li> </ul>	ne v	TORKS P	NOGR	AWINE KEV.	101									

ID	Activity Name	Calendar	Original	Start	Finish	Total	2015 2016
			Duration			Float	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SR8 Bench Excavation From West, CH 4065- 4075 = 10m
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-Od-14 08	04-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4075- 4085 = 10m
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d	SR8 Bench Excavation:From West, CH 4085- 4095 = 10m
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d	SRB Bench Excavation From West, CH 4095- 4100 = 5m
From East (1	TS4)						
Heading Ex	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statu	tory holiday)					
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m
Bench Exc	avation (1.5d/m, 20m separation with heading)				-		
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 08	09-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m
A8470	SR8 Bench Excavation From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4135- 4125 = 10m
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	Od	SR8 Bench Excavation From East, CH 4125- 4115 = 10m
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	Od	SR® Bench Excavation From East, CH 4115- 4100 = 15m
Tunnel Linir	ng Works						
From West	- Base Slab (10m/bay, 10m separation with benching excavation	on)		_			
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab
A8530	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	■ SR8, From West,CH 4025 - 4035 = 10m/bay, base slab
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d	■ SR8, From West,CH 4035 - 4045 = 10m/bay, base slab
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d	■ SR8, From West, CH 4045 + 4055 = 10m/bay, base slab
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a	8d	05-Nov-14 08	12-Nov-14 18	160d	■ SR8, From West, CH 4055 - 4065 = 10m/bay, base slab
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d	■ SR\$, From West, CH 4065 - 4075 = 10m/bay, base slab
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	7d/wk-1a	8d	05-Dec-14 08	12-Dec-14 18	148d	■ SR8, From West, CH 4075 - 4085 = 10m/bay, base slab
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18	150d	■ SR8, From West, CH 4085 - 4095 = 10m/bay, base slab
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d	■ SR8, From West, CH 4095 - 4105 = 10m/bay, base slab
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d	■ SR8, From West, CH 4105 - 4115 = 10m/bay, base slab
77.11	t - Lining (5m/bay, 10m separation with base slab)						
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From West, CH 3995 - 4000 = 1bay, lining
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	7d/wk-1a	9d	05-Oct-14 08	13-Oct-14 18	137d	■ SR8, From West, CH 4000 - 4005 = 1bay, fining
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d	SR8, From  West, CH 4005 - 4010 = 1bay, Ining
A8590		7d/wk-1a	9d	23-Oct-14 08	31-Od-14 18	137d	SR8, From West, CH 4010 - 4015 = 1bay, Ining
W0090	SR8. From West, CH 4010 - 4015 = 1bay, lining	(UWW-12	5u	23-001-14-00	DI-OUF IN 10	isra	
Actual \	Level of Effort China St			gineering (Hon		hoon St	Prepared by William Caluza Date Revision Checked Approved 26-Sep 1st submission 中國建築工程(唇法)計限公
	Remaining Work			RAMME REV			CHINA STATE CONSTRUCTION ENGINEERING GRONG KON

D	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	- 24			2015	0.0			2016	
A8595	SR8, From West,	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	Q4 SR8, Fr	Q1 om West, CH 40	Q2 015 - 4020 = 11	bay, lining	Q3	Q4	Q1	Q2	Q3
A8600	SR8, From West,	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	■ SR8, F	rom West, CH	4020 - 4025 =	1bay, lining					
A8605	SR8, From West,	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d		From West, CH							
A8610	SR8, From West,	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	■ SR8	, From West, Cl	H 4030 - 4035	= 1bay, linir	ng				
A8615	SR8, From West,	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	■ SR	B, From West, C	H 4035 - 4040	0 = 1bay, lini	ing				
A8620		CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d		88, From West,	1						
A8625	SR8, From West,	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d		R8, From West,	1						
A8630	SR8, From West,	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d		SR8, From Wes							
A8635	175	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d									
A8640		CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From We							
			1 - 12 - 12			1	1.00,00		SR8, From W	The	-31					
A8645		CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From V	Vest, CH 4065	- 4070 = 11	bay, lining				
A8647	SR8, From West,	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From	West, CH 407	0 - 4075 = 1	Ibay, lining				
A8648	SR8, From West,	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From	West, CH 40	75 - 4080 =	1bay, lining				
A8649	SR8, From West,	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From	n West, CH 40	080 - 4085 =	= 1bay, lining				
A8651	SR8, From West,	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, Fro	m West, CH 4	1085 - 4090	= 1bay, lining				
A8652	SR8, From West,	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d		■ SR8, Fr	om West, CH	4090 - 409	5 = 1bay, lining				1
A8653	SR8, From West,	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		SR8, F	rom West, CH	1 4095 - 410	00 = 1bay, linin	g			
A8654	SR8, From West,	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		■ SR8,1	From West, Cl	H 4100 - 41	05 = 1bay, lini	ng			Į.
From East -	Base Slab (10m/ba	y, 10m separation with benching excava-	tion)							Ī				_		
A9775	SR8 From East,	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	0d	si si	R8 From East,	CH 4149,5- 41	145 = 4.5m,	base slab			į	1
A9780	SR8 From East,	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	0d		SR8 From East,	CH 4145-4	135 = 10m/	bay, base slab		15		
A9785	SR8 From East,	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From Eas	st, CH 4135 -	4125 = 10n	v/bay, base sla	b			Ĭ.
A9786	SR8 From East,	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d		SR8 From E	ast, CH 4125	- 4115 = 10	Om/bay, base s	lab		Ì	
From East -	Lining (5m/bay, 10	m separation will) base slab)		-					40.00		1			-	-	
A9820	From East, SR8 C	H 4149,5 - 4145 = 4,5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	Od		From East, SR8	3 CH 4149.5 -	4145 = 4,5	m,1 bay, lining			1	
A9815	From East, SR8 C	H 4145 - 4140 = 1bay, lining	7d/wk-1a	5d	23-Dec-14 08	28-Dec-14 18	6d		From East, SF	8 CH 4145 - 4	4140 = 1bay	lining				i i
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	5d	29-Dec-14 08	03-Jan-15 18	6d			SR8 CH 4140		VI. 1			Ī	
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	5d	04-Jan-15 08	08-Jan-15 18	6d		From East,							F
7,000	Trom Edat, Ono o	114105-4150- 1003, mmg.	74/10/- 14	- 50	045011-15-05	50-0011-15-10	J.		Trom Last,	510 511 4155	44150-15	ay, ming				
		8 of 18						-		Prepared by W	filliam Cal-		_			
Summar Actual L	ry Bar evel of Effort							1	Date	Revision		hecked Appr	oved			
Actual V		China	State Construc	tion En	gineering (Hon	ig Kong) Ltd		26-	Sep 1st subm	ission			HAP	中国河	禁工程(善)	性)治阳八
Remaini	ing Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	eway Bay Typ	hoon Shelte	r Section)			+		zhit		ONSTRUCTION ENGINE	
	Remaining Work												-			

ity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float				2015			2016	
A9870	From East, SR8 CH 4130 - 4125 = 1bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	100000	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
						6d			t, SR8 CH 4130 - 4					
A9800	From East, SR8 CH 4125 - 4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d	at live	■ From Ea	st, SR8 CH 4125 - 4	1120 = 1bay, lining				
A9860	From East, SR8 CH 4120 - 4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d	1	■ From E	ast, SR8 CH 4120 -	4115 = 1bay, lining				
A9855	From East, SR8 CH 4115 - 4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d	1	1 From	ast, SR8 CH 4115	4110 = 1bay, lining				
A9850	From East, SR8 CH 4110 - 4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d	1	B. From	East. SR8 CH 4110	- 4105 = 1bay, lining				
OHVD(10m	n/bay) / Utility Trough				INTERPOSE S	-	1	100.000		10-0,4 111113				
A8570		74.44	1001					100						
00	SR8 Tunnel OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d				SR8 Tunnel OHVD an	d utility trough	= 167= 17 bays @	10m/bay @ 7d/bay	
EB Outer Tu	nnel Excavation													
From West (	(TPCWAE)													
Outer Benc	ch Excavation (1,5d - 2d/m, 20m separation with heading	9)	-					1					_	
A9550	EB, Outer Bench From West, CH 4035-4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	EB, Outer	Bench From We	est, CH 4035- 4045	= 10m				
A9555	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/	/m) 7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	EB.O	uter Bench From	West, CH 4045- 40	055 = 10m /2d/m)				
A9560	EB, Outer Bench From West, CH 4055- 4065 = 10m (2d/	/m) 7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d				1				
					107.00	17:22				5- 4065 = 10m (2d/m)				
A9565	EB, Outer Bench From West, CH 4065- 4075 = 10m (2d/	/m) 7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d	-	EB, Outer Ben	ch From West, CH	1065- 4075 = 10m (2d/	m)			
A9520	EB, Outer Bench From West, CH 4075- 4085 = 10m (2d/	/m) 7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Outer	Bench From West,	CH 4075- 4085 = 10m	(2d/m)			
A9545	EB, Outer Bench From West, CH 4085- 4095 = 10m 1,50	d/m) 7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d		EB, Ou	ter Bench From We	st, CH 4085- 4095 = 10	0m 1.5d/m)			
From East (	TS4)													
Outer Bend	ch Excavation (1.5d-2d/m, 20m separation with heading	)						-	1		_	-	-	
A9605	EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d	FR 58	Outer Bench Ere	: m East, CH 4147.5	4145 = 2 5m				
A9610				P. T. P. S.	G. Haran	1000	1							
	EB, Outer Bench From East, CH 4145- 4135 = 10m (2d/n		20d	19-Nov-14 08	08-Dec-14 18	120d		EB, Outer Bench	From East, CH 414	5- 4135 = 10m (2d/m)				
A9615	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/n	m) 7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	120d		EB, Outer B	anch From East, CH	4135- 4125 = 10m (20	i/m)			
A9620	EB, Outer Bench From East, CH 4125- 4115 = 10m (2d/n	m) 7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Out	er Bench From East	CH 4125- 4115 = 10m	(2d/m)			
A9625	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/n	m) 7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d		EB,	Outer Bench From B	East, CH 4115- 4105 =	10m (2d/m)			
A9630	EB, Outer Bench From East, CH 4105- 4095 = 10m (1.5c	d/m) 7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d			B, Outer Bench Fro	om East, CH 4105- 409	5 = 10m (1.5c	/m)		
EB (Inner Tu	unnel Excavation + Lining)							1 1 1	1		1,77			
From West (	Control of the Contro						1							
The second second							4							
Inner Head	ing Excavation (2d/m, 24h/day work shift, 7d/week, no v	work on statutory holi	day)											
A8805	EB,Inner Heading From West, CH 3992- 4005 = 13m @3	3d/m 7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB,Inr	er Heading Fron	West, CH 3992- 4	005 = 13m @3d/m				
A8815	EB,Inner Heading From West, CH 4005- 4015 = 10m @	2d/m 7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od	E E	Inner Heading I	rom West, CH 400	05- 4015 = 10m @2d/m	1			
Summa	9 of 18								Prepared by Willian	Caluza	-		F 4	
	aval of Effort	ina State Construe	tion En	ringering /Uc-	a Kona) I td			Date	Revision	Checked Appro	ved			
Actual V	Work	ina State Construc	uon Eng	ameering (Hon	g Kong) Ltd		2	6-Sep 1st sub	mission		DOC	中国建建	工程(春港)学	一阳小
	ning Work Contract No. HY/2009/15 - C	entral Wan Chai B	Pass -	Tunnel ( Cause	eway Bay Typ	hoon Shelt	ter Section)			-	chile		UCTION ENGINEERING (H	
	Remaining Work	WORKS	DOCE	ANNE DEV	NA.									
<ul> <li>Mileston</li> </ul>	ne	WURKS	KUGK	AMME REV.	IVI						- 1			

EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m  EB,Inner Heading From West, , CH 4025- 4035 = 10m @2d/m  EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m  EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m  EB,Inner Heading From West, , CH 4055- 4065 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4055- 4075 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4085- 4095 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4085- 4095 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4085- 4095 = 10m @ 2d/m  EB,Inner Bench From West, , CH 3992- 4005 = 13m (2d/m)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d	28-Nov-14 08 18-Dec-14 08 09-Jan-15 08 29-Jan-15 08 18-Feb-15 08 13-Mar-15 08	17-Dec-14 18  08-Jan-15 18  28-Jan-15 18  17-Feb-15 18  12-Mar-15 18  01-Apr-15 18	Od Od Od Od Od		EB,Inner He	Q2 g From West, , CH / ading From West, (	CH 4025- 4035 = 1	0m @2d/m i = 10m @2d/	Q1	2016 Q2	Q3
EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m  EB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m  EB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m  EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m  EB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 20d	18-Dec-14 08 09-Jan-15 08 29-Jan-15 08 18-Feb-15 08 13-Mar-15 08	08-Jan-15 18 28-Jan-15 18 17-Feb-15 18 12-Mar-15 18	Od Od		EB,Inner He	ading From West, (	CH 4025- 4035 = 1	0m @2d/m i = 10m @2d/	m		
EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m  EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m  EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d	09-Jan-15 08 29-Jan-15 08 18-Feb-15 08 13-Mar-15 08	28-Jan-15 18 17-Feb-15 18 12-Mar-15 18	Od Od		EB,Inner	Heading From We		= 10m @2d/	m		
EB,Inner Heading From West, , CH 4045-4055 = 10m @2d/m  EB,Inner Heading From West, CH 4055-4065 = 10m @ 2d/m  EB,Inner Heading From West, , CH 4065-4075 = 10m, @ 2d/m  EB,Inner Heading From West, CH 4075-4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085-4095 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085-4095 = 10m @ 2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d	29-Jan-15 08 18-Feb-15 08 13-Mar-15 08	17-Feb-15 18 12-Mar-15 18	Od			1.000	st, , CH 4035- 4045		m		
EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m  EB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	18-Feb-15 08 13-Mar-15 08	12-Mar-15 18				1.000					
EB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m  EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m  EXCAVATION (1.5-2d/m, 20m separation with heading)	7d/wk-1a 7d/wk-1a	20d 20d	13-Mar-15 08	1,550	0d			nner Heading From	West CH 4045-	1055 = 10 m / 6	20/00		
EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m  Excavation (1.5-2d/m, 20m separation with heading)	7d/wk-1a	20d		01-Apr-15 18	1.0			EB,Inner Heading F					
EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m  EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m  Excavation (1.5-2d/m, 20m separation with heading)	7d/wk-1a	20d		01-70-10 10	0d			A contract of					
EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m  excavation (1:5-2d/m, 20m separation with heading)	20,110,12					00		EB,Inner Headin			24 July 20 10 10		
excavation (1:5-2d/m, 20m separation with heading)	7d/wk-1a	20d		22-Apr-15 18	0d			EB,Inner He	eading From West	CH 4075- 40	185 = 10m @ 2d/m		
			23-Apr-15 08	13-May-15 18	0d			EB,Inne	r Heading From W	est, CH 4085	- 4095 = 10m @ 2d/m		
EB. Inner Bench From West, CH 3992-4005 = 13m (2d/m)													
The second secon	7d/wk-1a	26d	DB-Nov-14 08	03-Dec-14 18	23d	EB.	nner Bench Fro	om West, CH 3992-	4005 = 13m (2d/m)	er.			
EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d	-	EB, Inner Ben	ch From West,CH 4	1005- 4015 = 10m				
EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d					lm.			
EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	144								
The state of the s	44,000	17.27											
				1		1							
	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d			EB, Inner Bench	From West,CH 404	5- 4055 = 10	m	1	
EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d			EB, Inner Be	nch From West,CH	4055- 4065	= 10m		
EB, Inner Bench From West,CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d			EB, Inner	Bench From West	CH 4065- 40	75 = 10m		
EB, Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od			EB, Ini	ner Bench From W	est,CH 4075-	4085 = 10m		
EB, Inner Bench From West,CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d			■ EB	Inner Bench From	West CH 408	5- 4095 = 10m		
1)		-								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0. 1000 = 1011		
Excavation (3d/m, 24h/day work shift, 7d/week, no work on st	atutory holis	iau)											
			40.1.10.40										
30/m	/d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	0d	1	EB,Inner He	ading From East, C	H 4147.5 to 4145 =	2.5m, @ 3d/	m-		
	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	0d		EB,Inr	er Heading From E	ast, CH 4145- 4135	i = 10m, @ 3	d/m		
EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	Od		E	B,Inner Heading Fro	om East, CH 4135-	4125 = 10m (	@2d/m		
EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	0d			EB,Inner Heading	From East, CH 41	25- 4115 = 10	)m @2d/m		
EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	Od								
EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	0d								
The state of the s			- Applicate	10.0				EB,III/let	ricauling From Eas	L CH 4105- 4	usa = 1um @2d/m		
											1		
Eb,inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d		0 8	B,Inner Bench From	m East, CH 4147.5	- 4145 = 2.5m	y i		
10 of 18													
el of Effort China State	Construct	ion Eng	neering (Hone	g Kong) Ltd		_		Revision	Checked Appro	oved			
K				-			ep ist submi	Soluti		PDF	中國建築工	程(要港)学	「阻公
maining Work	an Chai By	Pass -	unnel ( Cause	eway Bay Typh	oon Shelter Sec	ction)				eaute	CHINA STATE CONSTRUC	TION ENGINEERING (H	ONG KONG
	ORKS P	ROGRA	MME REV	M									
E E E E E E	EB, Inner Bench From West, CH 4015- 4025 = 10m  EB, Inner Bench From West, CH 4025- 4035 = 10m  EB, Inner Bench From West, CH 4035- 4045 = 10m  EB, Inner Bench From West, CH 4045- 4055 = 10m  EB, Inner Bench From West, CH 4055- 4065 = 10m  EB, Inner Bench From West, CH 4055- 4065 = 10m  EB, Inner Bench From West, CH 4075- 4085 = 10m  EB, Inner Bench From West, CH 4085- 4095 = 10m  EB, Inner Bench From West, CH 4085- 4095 = 10m  EB, Inner Bench From West, CH 4085- 4095 = 10m  EB, Inner Bench From West, CH 4085- 4095 = 10m  EB, Inner Heading From East, CH 4147-5 to 4145 = 2.5m, @ 3d/m  EB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m  EB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  EB, Inner Bench From East, CH 4147.5 - 4145 = 2.5m  Arr  In of 18  China State  Contract No. HY/2009/15 - Central W  Elling Work	EB, Inner Bench From West, CH 4015- 4025 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4025- 4035 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4035- 4045 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4045- 4055 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4065- 4065 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4065- 4075 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4075- 4085 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a  EB, Inner Heading From East, CH 4147-5 to 4145 = 2.5m, @ 7d/wk-1a  EB, Inner Heading From East, CH 4145- 4135 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4115- 4095 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a	EB, Inner Bench From West, CH 4015- 4025 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4025- 4035 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4035- 4045 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4045- 4055 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4045- 4055 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4055- 4065 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4065- 4075 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4075- 4085 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a 15d  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a 15d  EB, Inner Heading From East, CH 4147-5 to 4145 = 2.5m, @ 7d/wk-1a 30d  EB, Inner Heading From East, CH 4145- 4135 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 4125- 4115 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 415- 4105 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 4105- 4095 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 4105- 4095 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 4105- 4095 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Heading From East, CH 4105- 4095 = 10m @ 2d/m 7d/wk-1a 20d  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a 20d  EB, Inner Bench From East, CH 4147-5 - 4145 = 2.5m 7d/wk-1a 20d  COntract No. HY/2009/15 - Central Wan Chai By Pass - 7d/wk-1a 10 of 18	EB, Inner Bench From West,CH 4015- 4025 = 10m 7d/wk-1a 15d 09-Jan-15 08  EB, Inner Bench From West,CH 4025- 4035 = 10m 7d/wk-1a 15d 29-Jan-15 08  EB, Inner Bench From West,CH 4035- 4045 = 10m 7d/wk-1a 15d 18-Feb-15 08  EB, Inner Bench From West,CH 4045- 4055 = 10m 7d/wk-1a 15d 13-Mar-15 08  EB, Inner Bench From West,CH 4045- 4055 = 10m 7d/wk-1a 15d 02-Apr-15 08  EB, Inner Bench From West,CH 4055- 4075 = 10m 7d/wk-1a 15d 02-Apr-15 08  EB, Inner Bench From West,CH 4075- 4085 = 10m 7d/wk-1a 15d 05-May-15 08  EB, Inner Bench From West,CH 4075- 4085 = 10m 7d/wk-1a 15d 05-May-15 08  EB, Inner Bench From West,CH 4085- 4095 = 10m 7d/wk-1a 15d 20-May-15 08  EB, Inner Bench From West,CH 4085- 4095 = 10m 7d/wk-1a 15d 20-May-15 08  EB, Inner Bench From West,CH 4085- 4095 = 10m 7d/wk-1a 15d 20-May-15 08  EB, Inner Heading From East, CH 4147-5 to 4145 = 2.5m, @ 7d/wk-1a 30d 14-Jan-15 08  EB, Inner Heading From East, CH 4145- 4135 = 10m @2d/m 7d/wk-1a 20d 13-Feb-15 08  EB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m 7d/wk-1a 20d 08-Mar-15 08  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4105- 4105 = 2.5m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4105- 4105 = 2.5m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4105- 4105 = 2.5m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From East, CH 4105- 4105- 4105 = 2.5m 7d/wk-1a 20d 18-Apr-15 08  EB, Inner Bench From Ea	EB, Inner Bench From West, CH 4015- 4025 = 10m 7d/wk-1a 15d 09-Jan-15 08 23-Jan-15 18  EB, Inner Bench From West, CH 4025- 4035 = 10m 7d/wk-1a 15d 29-Jan-15 08 12-Feb-15 18  EB, Inner Bench From West, CH 4035- 4045 = 10m 7d/wk-1a 15d 18-Feb-15 08 07-Mar-15 18  EB, Inner Bench From West, CH 4045- 4055 = 10m 7d/wk-1a 15d 13-Mar-15 08 27-Mar-15 18  EB, Inner Bench From West, CH 4055- 4065 = 10m 7d/wk-1a 15d 02-Apr-15 08 17-Apr-15 18  EB, Inner Bench From West, CH 4055- 4065 = 10m 7d/wk-1a 15d 02-Apr-15 08 03-May-15 18  EB, Inner Bench From West, CH 4075- 4085 = 10m 7d/wk-1a 15d 05-May-15 08 03-May-15 18  EB, Inner Bench From West, CH 4075- 4085 = 10m 7d/wk-1a 15d 05-May-15 08 19-May-15 18  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a 15d 05-May-15 08 03-Jun-15 18  EB, Inner Bench From West, CH 4085- 4095 = 10m 7d/wk-1a 15d 05-May-15 08 03-Jun-15 18  EB, Inner Bench From East, CH 4147-5 to 4145 = 2,5m, @ 7d/wk-1a 8d 08-Jan-15 08 13-Jan-15 18  EB, Inner Heading From East, CH 4145- 4135 = 10m @2d/m 7d/wk-1a 30d 14-Jan-15 08 12-Feb-15 18  EB, Inner Heading From East, CH 4135- 4125 = 10m @2d/m 7d/wk-1a 20d 13-Feb-15 08 07-Mar-15 18  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a 20d 08-Mar-15 08 17-Apr-15 18  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08 17-Apr-15 18  EB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08 17-Apr-15 18  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08 17-Apr-15 18  EB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m 7d/wk-1a 20d 18-Apr-15 08 17-Apr-15 18  EB, Inner Bench From East, CH 4147.5 - 4145 = 2.5m 7d/wk-1a 20d 18-Apr-15 08 11-Mar-15 18  EB, Inner Bench From East, CH 4147.5 - 4145 = 2.5m 7d/wk-1a 20d 18-Apr-15 08 11-Mar-15 18  EB, Inner Bench From East, CH 4147.5 - 4145 = 2.5m 7d/wk-1a 20d 28-Mar-15 08 11-Mar-15 18  EB, Inner Bench From East, CH 4147.5 - 4145 = 2.5m 7d/wk-1a 4d 08-Mar-15 08 11-Mar-15 18	EB, Inner Bench From West,CH 4015-4025 = 10m 7d/wk-1a 15d 09-Jan-15 08 23-Jan-15 18 4d EB, Inner Bench From West,CH 4025-4035 = 10m 7d/wk-1a 15d 29-Jan-15 08 12-Feb-15 18 14d EB, Inner Bench From West,CH 4035-4045 = 10m 7d/wk-1a 15d 18-Feb-15 08 07-Mar-15 18 11d EB, Inner Bench From West,CH 4045-4055 = 10m 7d/wk-1a 15d 13-Mar-15 08 27-Mar-15 18 6d EB, Inner Bench From West,CH 4045-4055 = 10m 7d/wk-1a 15d 02-Apr-15 08 17-Apr-15 18 1d EB, Inner Bench From West,CH 4085-4065 = 10m 7d/wk-1a 15d 02-Apr-15 08 37-Apr-15 18 1d EB, Inner Bench From West,CH 4085-4065 = 10m 7d/wk-1a 15d 02-Apr-15 08 03-May-15 18 1d EB, Inner Bench From West,CH 4075-4085 = 10m 7d/wk-1a 15d 05-May-15 08 03-May-15 18 1d 05-May-15 08 03-May-15 18 0d 05-May-15 08 03-Jun-15 18 0d 05-May-15 08 0	EB, Inner Bench From West,CH 4015- 4025 = 10m	EB, Inner Bench From West, CH 4015-4025 = 10m	B. Inner Bench From West,CH 4015- 4025 = 10m	B. Inner Bench From West,CH 4015-4025 = 10m 7d/who-1a 15d 99-Jan-15 08 23-Jan-15 18 4d  EB. Inner Bench From West,CH 4025-4035 = 10m 7d/who-1a 15d 29-Jan-15 08 12-Feb-15 18 14d  EB. Inner Bench From West,CH 4025-4035 = 10m 7d/who-1a 15d 29-Jan-15 08 27-Mar-15 18 11d  EB. Inner Bench From West,CH 4035-4045 = 10m 7d/who-1a 15d 13-Mar-15 08 27-Mar-15 18 11d  EB. Inner Bench From West,CH 4045-4055 = 10m 7d/who-1a 15d 02-Apr-15 08 17-Apr-15 18 1d  EB. Inner Bench From West,CH 4085-4055 = 10m 7d/who-1a 15d 02-Apr-15 08 13-Mar-15 08 03-Mar-15 18 1d  EB. Inner Bench From West,CH 4085-4055 = 10m 7d/who-1a 15d 05-Mary-15 08 13-Mar-15 18 1d  EB. Inner Bench From West,CH 4085-4078 = 10m 7d/who-1a 15d 05-Mary-15 08 03-Mary-15 18 0d  EB. Inner Bench From West,CH 4085-4078 = 10m 7d/who-1a 15d 05-Mary-15 08 03-Mary-15 18 0d  EB. Inner Bench From West,CH 4085-4095 = 10m 7d/who-1a 15d 05-Mary-15 08 03-Mary-15 18 0d  EB. Inner Bench From West,CH 4085-4095 = 10m 7d/who-1a 15d 05-Mary-15 08 03-Mary-15 18 0d  EB. Inner Bench From West,CH 4085-4095 = 10m 7d/who-1a 15d 05-Mary-15 08 03-Mary-15 18 0d  EB. Inner Bench From West,CH 4085-4095 = 10m 7d/who-1a 15d 05-Mary-15 08 07-Mar-15 18 0d  EB. Inner Bench From East, CH 4145-4135 = 10m, @ 3d/m 7d/who-1a 20d 08-Mar-15 08 07-Mar-15 18 0d  EB. Inner Heading From East, CH 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 29-Mar-15 08 07-Mar-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 29-Mar-15 08 07-Mar-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 39-Mar-15 08 08-Mary-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 39-Mar-15 08 08-Mary-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 39-Mar-15 08 08-Mary-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 39-Mar-15 08 08-Mary-15 18 0d  EB. Inner Heading From East, CH 4147-5 10 4145-4135 = 10m @ 2d/m 7d/who-1a 20d 39-Mar-15 08 08-Mary-15 18 0d  EB. In	EB, Inner Bench From West,CH 4015- 4025 = 10m  7d We-1a  15d  29-Jan-15 08  23-Jan-15 18  4d  EB, Inner Bench From West,CH 4025- 4035 = 10m  7d We-1a  15d  29-Jan-15 08  37-Man-15 18  11d  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4025- 4035 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From West,CH 4035- 4045 = 10m  EB, Inner Bench From East, CH 4147,5 to 4145 = 10m  EB, Inner Bench From East, CH 4147,5 to 4145 = 10m  EB, Inner Ben	EB, Inner Bench From West, CH 4015- 4025 = 10m 7/stwis-1a 156 09-Jan-15 08 23-Jan-15 18 4d 28-Jan-15 08 12-Feb-15 18 14d 28-Ja	EB, Inner Bench From West, CH 4015- 4025 = 10m

VID.	Activity Name	Calendar	Original Duration	Start	Finish	Total				21	015				2016	
A8865	EB,Inner Bench From East, CH 4145- 4135 = 10m	7444-4-	1	10 11 - 15 00		Float	.04	Q1		Q2	Q3	Q4		Q1	Q2	Q3
1 110000		7d/wk-1a	15d	12-Mar-15 08	26-Mar-15 18	11d				EB,Inner Bench	From East, CH 4	145- 4135 = 10	0m			
A8870	EB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	28-Mar-15 08	12-Apr-15 18	10d			-	EB,Inner Ben	ch From East, Cl	1 4135- 4125	= 10m			
A8855	EB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	5d				EB,Inner	Bench From Eas	t CH 4125- 4	115 = 10m			
A8875	EB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	09-May-15 08	23-May-15 18	0d					nner Bench From	1				
A9915	EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	Od			1				100			
P SOF ME		/u/ww-1d	100	24-May-15 06	00-Jun-15 16	ua			1	Ē	B,Inner Bench Fr	om East, CH 4	105-4095 =	= 10m		
Tunnel Linin																
From West	Base Slab (10m/bay, 10m separation with benching excava-	ition)										-				
A8900	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d		EB From W	est, Base	Slab CH 3990 -	3995 = 1 bay					
A8890	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d		E EBFO	om West	Base Slah CH	3995 - 4005 = 10	m/hay				
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d										
								■ E	3 From V	Vest, Base Slab	CH 4005 - 4015	10m/bay				
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	14d		- 6	EB Fr	om West, Base S	Slab CH 4015 - 4	025 = 10m/bay	r			
A8915	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d			E E	B From West, Ba	ase Slab CH 4025	- 4035 = 10m	/bay			
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d			-	EB From Wes	t, Base Slab CH	1035 - 4045 =	10m/bay			
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d				■ EB From \	West, Base Slab	H 4045 - 405	5 = 10m/ha			
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d										
A8880										M EB FID	m West, Base Sla	ib CH 4055 - 4	4065 = 10m	/bay		
	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	5d				■ EB)	From West, Base	Slab CH 4065	5 - 4075 = 10	0m/bay		
A8885	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d				■ E	B From West, B	ise Slab CH 4	075 - 4085	= 10m/bay		
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	0d					EB From West,	Base Slab CH	4085 - 409	5 = 10m/bay		
From East I	Base Slab (10m/bay, 10m separation with benching excava	tion)	-									1				
A9905	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d			1	ER From E	ast, Base Slab Cl	4440 E 444	5-45-			
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay								i			1				
		7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d				EB Fro	m East, Base Sla	CH 4145 - 4	135 = 10m/b	bay		
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d			1	■ EB	From East, Base	Slab CH 4135	5 - 4125 = 10	0m/bay		
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	0d					EB From East, B	ise Slab CH 4	125 - 4115 =	= 10m/bay		
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Od			- 1		EB From East,	Base Slab CH	4115 - 410	5 = 10m/bay		
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od			1		EB From Eas	t Base Slah C	H 4105 - 40	005 = 10m/hav		
Lining (5m)	bay, 15m separation with base slab)			-	1			-			E CO PIONICA	it, Dase Clab C	3114103-40	usu - rominay		
									ì					1		
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d		-	EB From	West, Lining Ch	3990 - 3995 = 1	bay				
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d			EB Fre	om West, Lining	CH 3995 - 4000	= 1bay				
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d		8	EB F	rom West, Linin	g CH 4000 - 400	5 = 1bay				
Summar	ny Rer 11 of 18								Dece	ared by William	Column	1 3				
	evel of Effort	Into Demonstra						Date		ared by William ( Revision	Caluza Checked Ap	proved				
Actual W	China	State Construc	tion Eng	ineering (Hon	g Kong) Ltd		2	26-Sep 1st s			1					
Remaini		ral Wan Chai R	Pass -	Tunnel ( Caus	eway Bay Typh	oon Shelter	Section)				3 12 1	172,			程(香港)引	
	Remaining Work	Trail One D	1 435 -	, aimer ( Gaus	chay bay Typi	John Gliener	Jection)					l'alla	CHINA S	TATE CONSTRUCT	ON ENGINEERING (	IONG KON
		MODKED	POCP	AMME REV	M		-									
<ul> <li>Mileston</li> </ul>																

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	1			015			2016	
A9050	ER From West Lini	ing CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d T	Q4	Q1	EB From West, Lir	Q3	Q4	Q1	Q2	Q3
							V 72 11 17								
A9055	EB From West, Lini	ing CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West,	Lining CH 4010 -	4015 = 1bay			
A9060	EB From West, Lini	ing CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d	-		EB From West	t Lining CH 4015	- 4020 = 1bay			
A9070	EB From West, Lini	ing CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			■ EB From We	est, Lining CH 402	0 - 4025 = 1bay			
A9075	EB From West, Lini	ing CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			■ EB From W	Vest Lining CH 40	025 - 4030 = 1bay	y.		
A9080	EB From West, Lini	ing CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			■ EB From	West, Lining CH	4030 - 4035 = 1b	ay		
A9085	EB From West, Lini	ing CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			■ EB From	West, Lining CH	4035 - 4040 = 1	bay		
A9015	EB From West, Lini	ing CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	į.		■ EB Fro	om West, Lining C	CH 4040 - 4045 =	1bay		
A9020	EB From West, Lin	ing CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			■ EBF	rom West, Lining	CH 4045 - 4050	= 1bay		
A9025	EB From West, Lini	ing CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			■ EB	From West, Linin	g CH 4050 - 405	55 = 1bay		
A9030	EB From West, Lin	ing CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d	1			B From West, Lin	ing CH 4055 - 40	060 = 1bay		
A9035	EB From West, Lin	ing CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d				EB From West, Li	ning CH 4060 - 4	4085 = 1bay		
A9040		ing CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West,	1			
A9045		ing CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od				EB From Wes	1 3			
A8955		ing CH 4075 - 4080 = 1bay		10d	30-Jun-15 08	10-Jul-15 18	0d				EB From We				
			7d/wk-1a	-	11-Jul-15 08		Od			1			080 - 4085 = 1bay		
A8960		ing CH 4080 - 4085 = 1bay	7d/wk-1a	5d	1.50	15-Jul-15 18						Y			
A8970	EB From West, Lin	ing CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d						4085 - 4090 = 1bay		
A8975	EB From West, Lin	ing CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d				EB From	West, Lining CH	4090 - 4095 = 1bay		
A8980	EB From West, Lin	ing CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ EB From	West, Lining Ch	H 4095 - 4100 = 1bay		
A8985	EB From West, Lin	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd		1		B EB From	m:West, Lining C	CH 4100 - 4105 = 1bay	1	
A8990	EB From West, Lin	ring CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Od	1			■ EB Fro	West, Lining	CH 4105 - 4110 = 1ba	y	
A8995	EB From West, Lin	ring CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d				■ EB Fr	rom West, Lining	CH 4110 - 4115 = 16	ay	
A9000	EB From West, Lin	ning CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d				■ EBF	rom West, Lining	CH 4115 - 4120 = 1	bay	
A9010	EB From West, Lin	ning CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d	1			B EB	From West, Linin	g CH 4120 - 4125 =	1bay	
A8965	EB From West, Lin	ning CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Od				1 EE	From West, Lini	ing CH 4125 - 4130 =	1bay	
A8935	EB From West, Lin	ning CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd	E			1 E	B From West, Lin	ning CH 4130 - 4135	= 1bay	
A8940	EB From West, Lin	ning CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	0d					EB From West, L	ining CH 4135 - 4140	= 1bay	
A8945		ning CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od			į		EB From West, I	Lining CH 4140 - 414	5 = 1bay	
A8950		ning CH 4145 - 4149.5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Od	İ			i.		Lining CH 4145 - 41		
70000	ED FIORIT WEST, LI		I di ante la	94	1.00 -1000	15 556 10 10	1-24	·		i .	-		1 2 2 3 3 3 3 1		
Summa		12 of 18							Date	Prepared by William Revision	Checked A	pproved			
	Level of Effort	Chir	na State Constru	ction En	gineering (Ho	ng Kong) Ltd			26-Sep 1st subr	CASE ADDRESS AT		-	advertise and	- 20 / 20 20 1	
Actual		Contract No. 119/19996/45 Co.	nter ( Man Chair	u Deec	Tuenet / Com	numar Pay To	boon Shelle	or Contion				03150	中國建築工		
	ning Work	Contract No. HY/2009/15 - Ce	nual wan Chai E	y Pass .	· runner ( Caus	seway bay Typ	moon Snelte	er Section)				TO HELD	CHINA STATE CONSTRU	CTION ENGINEERING	HONG KON
	Remaining Work		MODKE	POGE	AMME DE	/ M									
◆ Milesto	one		WORKS	PROGR	RAMME REV	. M					-				
									I .						

ID	Activity Name	Calendar	Original Duration	start	Finish	Total Float	Q4	01		2015			2016	
OHVD(10m	n/bay) / Utility Trough				-		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A9095	EB From West OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od					EB From	n West OHVD and	utility trough =,	167= 17 bays @ 1
VB Outer To	funnel Excavation					-			5				-	
From West	(TPCWAE)					-							-	
Outer Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work of	on statutory hol	iday)											
A9651	WB, Outer Heading From West, CH 4085- 4092.5 = 7.5m @ 2d/m	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer Hea	ding From West,	CH 4085- 4092,5	= 7.5m @ 2d/m			1	
Outer Bent	ch Excavation (1.5d-2d/m, 20m separation with heading)													-
A9680	WB, Outer Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Od-14 08	26-Oct-14 18	163d	WB, Outer	Bench From We	st, CH 4025- 403	5 = 10m			1	
A9665	WB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d			West, CH 4035- 4	1				
A9670	WB, Outer Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	■ WB,	Outer Bench Fro	m West, CH 4045	- 4055 = 10m				
A9675	WB, Outer Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d	- v	B Outer Bench	From West, CH 4	155- 4065 = 10m				
A9700	WB, Outer Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d	1			4065- 4075 = 10m				
A9701	WB, Outer Bench From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d	1	WB, Outer B	Bench From West,	CH 4075- 4082.5 =	7.5m		į.	
From East (	(TS4)				A									
Outer Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work o	n statutory hol	iday)				13							
A9730	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m @2d/m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer Hea	ding From East, 0	H 4105- 4092,5	12.5m @2d/m				
Outer Bend	ch Excavation (1.5d-2d/m, 20m separation with heading)				- Line									
A9740	WB, Outer Bench From East, CH 4136-4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	I WB, Outer B	ench From East,	CH 4136- 4135 =	1in				
A9770	WB, Outer Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	WB, Oute	Bench From Ea	st, CH 4135- 4125	≐ 10m				
A9745	WB, Outer Berich From East, CH 4125-4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d	■ WB, O	ter Bench From	; East, CH 4125- 41	15 = 10m				
A9750	WB, Outer Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d	■ WB,	Outer Bench Fro	: m East, CH 4115-	4105 = 10m				
A9755	WB, Outer Bench From East, CH 4105-4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d	= w	B, Outer Bench I	rom East, CH 41	05- 4095 = 10m				
A9760	WB, Outer Bench From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d	-	WB, Outer Bo	ench From East, C	H 4095- 4082.5 = 12	2.5m			
WB (Inner Tu	unnel Excavation + Lining)						1						1	-
From West (	(TPCWAE)						H		1					
Inner Head	ting Excavation (2-3d/m, 24h/day work shift, 7d/week, no work	on statutory ho	oliday)				1					-		
A9130	WB,Inner Heading From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	0d	IAVD I	nor Hooding C	Nam Cu son	VD05 - 40 65 ***				
A9135	WB,Inner Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d			-				4005 = 12m @3d/m				
A9140				19-Nov-14 08	08-Dec-14 18	Od	1			05- 4015 = 10m @2			1	
70 140	WB,Inner Heading From West, CH 4015- 4025 = 10m @2d/m	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	Od		WB,Inner Head	ling From West, C	H 4015- 4025 = 10m	1 @2d/m			
Summa	and the second s								epared by William					
	Level of Effort China St	ate Construc	tion Eng	ineering (Hon	g Kong) Ltd			Sep 1st submis	Revision	Checked Appr	oved			
Actual V	Work								Peloti		100	中國建築	工程(華港	)有阻公司
	ning Work Contract No. HY/2009/15 - Central	Wan Chai By	Pass -	Tunnel ( Caus	eway Bay Typi	noon She	Iter Section)				691140	CHINA STATE CONSTR	UCTION ENGINEERIN	NG CHONG KONG LTD
Critical i     Mileston	Remaining Work	MOBKED	POCE	AMME REV	M									
Mileston	ne .	WUNNSP	NOGK	WININE KEA	IVI		1 1							

	Activity Name	Calendar	Original	Start	Finish	Total Float		2015			2016	
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	Od Od	Q4	Q1 Q2 Q: WB,Inner Heading From West, CH 4025		Q1	Q2	Q3
A9105				0.510.7710.0								
	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	0d		WB,Inner Heading From West, CH	4035- 4045 = 10m @2d	I/m		
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	0d		WB Inner Heading From West	CH 4045- 4055 = 10m	@2d/m		
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	Od		WB,Inner Heading From W	est, CH 4055- 4065 = 1	10m @ 2d/m		
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	0d		WB Inner Heading From	m West, CH 4065- 407	5 = 10m, @ 2d/m		
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	0d		WB,Inner Heading	From West, CH 4075-	4085 = 10m @ 2d/m		
Inner Benc	h Excavation (1,5d-2d/m, 20m separation with heading)		_									
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inner Bench From West, CH 3993-	4005 = 12m			
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		WB,Inner Bench From West, CH 400	05- 4015 = 10m			
A9190	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d		WB Inner Bench From West, Ch	1 4015- 4025 = 10m			
A9185	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d		WB,Inner Bench From West				
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d						
A9160								WB,Inner Bench From V				
	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d		WB,Inner Bench Fro	CASTOR SECTION SECTION			
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od		WB,Inner Bench	From West, CH 4055	- 4065 = 10m		
A9170	WB,Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od		WB,Inner Be	nch From West, CH 40	65- 4075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	0d		WB,Inner	Bench From West, CH	4075- 4085 = 10m		
	2111											
From East (	TS4)											
	TS4) ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s	tatutory holis	tay)	-								
		tatulory holis	1ay) 20d	14-Jan-15 08	02-Feb-15 18	6d		WB.Inner Heading From East, CH 41	35- 4125 = 10m @2d/r	n		
Inner Head	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d									
A9210 A9215	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s  WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08	25-Feb-15 18	6d		WB Inner Heading From East, C	H 4125- 4115 = 10m @	22d/m		
A9210 A9215 A9230	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		WB,Inner Heading From East, C	H 4125- 4115 = 10m @	)2d/m m @2d/m		
A9210 A9215 A9230 A9232	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08	25-Feb-15 18	6d		WB Inner Heading From East, C	H 4125- 4115 = 10m @	)2d/m m @2d/m		
A9210 A9215 A9230	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		WB,Inner Heading From East, C	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095	)2d/m m @2d/m = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		WB Inner Heading From East, C WB Inner Heading From East WB Inner Heading From	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095	)2d/m m @2d/m = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		WB Inner Heading From East, C WB Inner Heading From East WB Inner Heading From	H 4125-4115 = 10m @ xt, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40	22d/m m @2d/m = 10m @2d/m 185 = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225 Inner Bence	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  ih Excavation (1.5d-2d/m, 20m separation with heading)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18	6d 6d 6d 6d		WB,Inner Heading From East, C WB,Inner Heading From East WB,Inner Heading From WB,Inner Heading F	H 4125-4115 = 10m @ st, CH 4(15-4105 = 10) East, CH 4105-4095- rom East, CH 4095-40 ust, CH 4135-4125 = 10	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235	WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  In Excavation (1.5d-2d/m, 20m separation with heading)  WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18	6d 6d 6d 16d		WB,Inner Heading From East, C WB,Inner Heading From East WB,Inner Heading From WB,Inner Heading F	H 4125-4115 = 10m @ st, CH 4115- 4105 = 10 East, CH 4105- 4095 from East, CH 4095- 40 sst, CH 4135- 4125 = 10 In East, CH 4125- 4115	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240	WB,Inner Heading From East, CH 4105- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  from East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18	6d 6d 6d 16d 11d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench From East	H 4125-4115 = 10m @ st, CH 4115- 4105 = 10 East, CH 4105- 4095 from East, CH 4095- 40 sst, CH 4135- 4125 = 10 In East, CH 4125- 4115	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18	6d 6d 6d 16d 16d 11d 6d		WB,Inner Heading From East, C WB,Inner Heading From East WB,Inner Heading From WB,Inner Heading F WB,Inner Bench From Ea WB,Inner Bench From WB,Inner Bench	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095-40 rom East, CH 4095-40 st, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4105	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Ioner Bener A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 6d 16d 11d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From Ea  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40 sst, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 415- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095-40 rom East, CH 4095-40 st, CH 4135-4125 = 10 n East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4105	22d/m m @2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  China Stat	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading F  WB,Inner Bench From East  WB,Inner Bench  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza	H 4125-4115 = 10m @  st, CH 4115-4105 = 10  East, CH 4105-4095  rom East, CH 4095-40  st, CH 4135-4125 = 10  n East, CH 4125-4115  From East, CH 4115-4  ch From East, CH 4109  Jench From East, CH 4109	22d/m m@2d/m = 10m @2d/m 085 = 10m @2d/m 0m = 10m 105 = 10m 5- 4095 = 10m		
A9210 A9215 A9230 A9232 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa Actual L Actual L	WB,Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  China State  China State  October 2007  China State  Oct	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 27-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 6d 6d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading From  WB,Inner Bench From East  WB,Inner Bench From  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza  Date Revision Check	H 4125-4115 = 10m @ st, CH 4115-4105 = 10 East, CH 4105-4095 rom East, CH 4095-40 sst, CH 4135-4125 = 10 In East, CH 4125-4115 From East, CH 4115-4 ch From East, CH 4109 Bench From East, CH 4	22d/m m@2d/m = 10m @2d/m 185 = 10m @2d/m 0m = 10m 105 = 10m 5- 4095 = 10m 095- 4085 = 10m		
A9210 A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9247 A9250 Summa Actual V Remain	WB, Inner Heading From East, CH 4125- 4125 = 10m @2d/m  WB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB, Inner Heading From East, CH 4125- 4115 = 10m @2d/m  WB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB, Inner Bench From East, CH 4125- 4115 = 10m  WB, Inner Bench From East, CH 4125- 4115 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m  WB, Inner Bench From East, CH 4095- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4095 = 10m  China Statistical Contract No. HY/2009/15 - Central V  Contract No. HY/2009/15 - Central V	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 22-Apr-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d 6d 6d 6d 6d 6d 6d		WB,Inner Heading From East, C  WB,Inner Heading From East  WB,Inner Heading From  WB,Inner Heading From  WB,Inner Bench From East  WB,Inner Bench From  WB,Inner Bench  WB,Inner Bench  Prepared by William Caluza  Date Revision Check	H 4125-4115 = 10m @  st, CH 4115-4105 = 10  East, CH 4105-4095  rom East, CH 4095-40  st, CH 4135-4125 = 10  n East, CH 4125-4115  From East, CH 4115-4  ch From East, CH 4109  Jench From East, CH 4109	22d/m m@2d/m = 10m @2d/m 185 = 10m @2d/m 0m = 10m 105 = 10m 5-4095 = 10m 095-4085 = 10m		

ty ID	Activity Name		Calendar	Original Duration		Finish	Total Float					115			2016	
Tunnel Lini	ng Works		1	- Garanoll	1	1	Tivat	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3
		, 10m separation with benching excavat	ionl													
A9295		lase Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d						in an			
A9320		lase Slab CH 3995 - 4005 = 10m/bay			1,10,000						West, Base Slab (					
The same			7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d	1	100		om West, Base Sla					
A9255		lase Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d			■ V	B From West, Bas	e Slab CH 4005 -	4015 = 10m/ba	y .		
A9260	WB From West, B	lase Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d				WB From West,	Base Slab CH 40	15 - 4025 = 10n	n/bay		
A9265	WB From West, B	lase Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d				■ WB From W	est, Base Slab Cl	4 4025 - 4035 =	10m/bay		
A9300	WB From West, B	lase Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 08	09-May-15 18	20d	l i			■ WB Fro	m West, Base Sla	b CH 4035 - 404	45 = 10m/bay		1
A9325	WB From West, B	ase Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d				■ WB	From West, Base	Slab CH 4045 -	- 4055 = 10m/bay	d l	1
A9305	WB From West, B	lase Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d	I F			■ V	VB From West, B	ase Slab CH 40	55 - 4065 = 10m/ba	ay	
A9310	WB From West, B	lase Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	0d					WB From Wes	Base Slab CH	4065 - 4075 = 10n	n/bay	
A9315	WB From West, B	ase Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od					WB From We	est, Base Slab C	H 4075 - 4080 = 5	m	
From East	Base Slab (10m/bay,	10m separation with benching excavati	on)				- 2		-					-	1	-
A9960	WB From East, Ba	ase Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d				■ WB From	East, Base Slab	CH 4135 - 4125	= 10m/bay		
A9955	WB From East, Ba	ase Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d					rom East, Base S	Towns or the			
A9950	WB From East, Ba	ase Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d							- 4105 = 10m/bay		
A9945		ase Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	Vi.						105 - 4095 = 10m/t		
A9940		ase Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d	l i								
A9941		ase Slab CH 4085 - 4080 = 5m	7d/wk-1a		05-Jul-15 08	14-Jul-15 18	6d	l i			1			4095 - 4085 = 10n	T	
10000	n/bay, 10m separation	The state of the s	ru/ww-ra	iou	U3-30F15 U5	14-50+15 18	bu					MR From E	ast, Base Slab C	H 4085 - 4080 = 5	m	
				1											1	
A9430	WB From West, L	ining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d			■ WB	From West, Lining	CH 3990 - 3995	1bay			
A9470	WB From West, L	ining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d	I i		■ W	From West, Linin	g CH 3995 - 4000	= 1bay			
A9435	WB From West, L	ining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d	1		■ V	B From West, Lini	ng CH 4000 - 400	05 = 1bay			
A9360	WB From West, L	ining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d	1			WB From West, Li	ning CH 4005 - 4	010 = 1bay			
A9365	WB From West, L	ining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d	-			WB From West, I	ining CH 4010 -	1015 = 1bay			
A9370	WB From West, L	ining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d	1		1	WB From West,	Lining CH 4015	4020 = 1bay			
A9375	WB From West, L	ining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	1			WB From We	st, Lining CH 4020	- 4025 = 1bay			
A9380	WB From West, L	ining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d				■ WB From W	est, Lining CH 400	25 - 4030 = 1bay			
A9385	WB From West, L	ining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d	10			■ WB From V	Vest, Lining CH 4	030 - 4035 = 1ba	ay .		
	neu Par	15 of 18						13.		D.	epared by William					_
Summa Actual I	ary Bar Level of Effort								Date		Revision	Checked Ap	proved			
Actual 1		China	State Construc	tion En	gineering (Hoi	ng Kong) Ltd			26-Sep	1st submi:	ssion		nae	古田湾等	一把(那件)	<del>3-</del> Rd ≥
Remain	ning Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typi	hoon Shel	ter Section)	-				60 146		工程(唇涎): IRUCTION ENGINEERING	
Critical Critical	Remaining Work	Programme September   Programme										+		ZIMA SIME CONS	INCCITOR ENGINEERING	WICHE NON
<ul> <li>Milesto</li> </ul>	ne		WORKS P	ROGR	AMME REV	/. M				_			-			

WB From West, Lining CH 4035 - 4040 = 1bay		Duration			Float	Q4	Q1	Q2	Q3					
WB From West, Lining CH 4035 - 4040 = 1bay						44	141	UZ.	C(3		24	Q1	Q2	Q3
The state of the s	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	Ser de		■ WB From	West, Lining Ch	1 4035 - 40	40 = 1bay	-		
WB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			■ WB Fro	m West, Lining C	H 4040 - 4	045 = 1ba	1		
WB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			■ WB Fr	rom West, Lining	CH 4045 -	4050 = 1b	ay		
WB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d	į.		■ WBF	From West, Linin	g CH 4050	- 4055 = 1	bay		
WB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 0B	27-May-15 18	30d									
WB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			■ W	B From West, Li	ning CH 40	60 - 4065	= 1bsv		
WB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	5d	Toursey see	08-Jun-15 18	30d					-3000				
						l'È		3.4		1				
	0.07.11-00										3			
The second secon						l i			■ WB From	i West, Lini	ng CH 407	5 - 4080 = 1bay		
WB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d	1			■ WB Fro	m West, Lir	ning CH 40	80 - 4085 = 1bay		
WB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ WB Fro	m West, L	ining CH 4	085 - 4090 = 1bay		
WB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	0d	1			■ WB Fi	rom West, I	Lining CH	1090 - 4095 = 1ba	у	
WB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	0d				1 WB	rom West,	Lining CH	4095 - 4100 = 1b	ау	
WB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			■ WB	From Wes	t, Lining Ci	H 4100 - 4105 = 1b	pay	
WB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d				■ WE	3 From We	st, Lining C	H 4105 - 4110 = 1	bay	
WB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d				s w	B From We	est, Lining	CH 4110 - 4115 =	1bay	
WB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Od				8 V	VB From V	est, Lining	CH 4115 - 4120 =	1bay	
WB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d					WB From \	West, Linin	g CH 4120 - 4125	= 1bay	
WB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	1				WB From	West, Lini	ng CH 4125 - 4130	0 = 1bay	
WB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	1				WB From	n West, Lin	ing CH 4130 - 413	15 = 1bay	
WB From West, Lining CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od					WB Fro	m West, Li	ning CH 4135 - 41	36.5 = 1bay	
bay) / Utility Trough	-	-												-
WB From West OHVD and utility trough =, 153= 16 bays @	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od	1					WB From	West OHVD and	utility trough =, 15	3= 16 bays @
10m/bay @ 7d/bay				1										
	740.4.2	Od	1	02 Nov. 15 191	04						KD10 Ce	alian 2: Camplelia	a of Mina d Tomas	Maile (asia 7
Target KD10- 2 Nov 2015)	7 U/WK-2	ou		02-1404-15 16	ou						KD10- SE	clion z. completo	n of Mined Tunne	vvorks (orig. 1
orks with other Contracts														
Handover TZ6 to MTR	7d/wk-2	Od		30-Sep-14 18	-249d	Handover Ta	Z6 to MTR							
Handover TZ4 to CWB(T2)	7d/wk-2	Od		10-Nov-14 18	-290d	♦ Han	dover TZ4 to CWB(T	2)						
Provide access to CWB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	♦ Pr	rovide access to CWB	(CC) Contractor	-TS1 & TS2					
/ork	l Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typ	hoon She	Annual Section	Date	Revision		Approved				
2	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4070 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4110 - 4120 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4125 - 4130 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4135 - 4136.5 = 1bay  WB From West, Lining CH 4136 - 4136.5 = 1bay  WB From West OHVD and utility trough = 153= 16 bays @ 10m/bay @ 7d/bay  f KD10 - Section 5  KD10 - Section 5  KD10 - Section 5  KD10 - Section 5  KD10 - Section 7  KD10 - Section 7  KD10 - Section 7  KD10 - Section 7  Handover TZ4 to CWB(T2)  Provide access to CWB (CC) Contractor - TS1 & TS2  / Bar  vel of Effort  ork  g Work  Contract No. HY/2009/15 - Central	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4085 - 4080 = 1bay  WB From West, Lining CH 4085 - 4090 = 1bay  WB From West, Lining CH 4085 - 4090 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4105 - 4110 = 1bay  WB From West, Lining CH 4105 - 4110 = 1bay  WB From West, Lining CH 4115 - 4120 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4135 - 4130 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  7d/wk-1a  WB From West, Lining CH 4135 - 4136 = 1bay  7d/wk-1a  WB From West OHVD and utility trough = , 153 = 16 bays @ 7d/wk-1a  10m/bay @ 7d/bay  1 KD10 - Section 2: Completion of Mined Tunnel Works (orig. 7d/wk-2)  Target KD10 - 2 kov 2015)  To key With other Contracts  Handover T26 to MTR  7d/wk-2  Provide access to CWB (CC) Contractor- TS1 & TS2  7d/wk-2  Provide access to CWB (CC) Contractor- TS1 & TS2  7d/wk-2  Provide access to CWB (CC) Contractor- TS1 & TS2  China State Constructors  Contract No, HY/2009/15 - Central Wan Chai Been and the contractor contra	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4095 - 4090 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4110 - 4115 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4125 - 4130 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West, Lining CH 4135 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West Ching CH 4136 - 4136 = 1bay  WB From West	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4050 - 4065 = 1bay  WB From West, Lining CH 4050 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4060 - 4065 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 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4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4075 = 1bay  WB From West, Lining CH 4070 - 4080 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4085 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4080 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4090 - 4095 = 1bay  WB From West, Lining CH 4095 - 4100 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4105 = 1bay  WB From West, Lining CH 4100 - 4125 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4120 - 4125 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining CH 4130 - 4135 = 1bay  WB From West, Lining	WB From West, Lining CH 4050 - 4055 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4060 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4055 - 4070 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4075 - 4080 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4060 = 1bay  WB From West, Lining CH 4085 - 4100 = 1bay  Tdwk-1a  5d  3d-Jul-15 08  Dd-Aug-15 08	WB From West, Lining CH 4050 - 4055 = 1 bay	WB From West, Lining CH 4050 - 4055 = 1bay	WB From West, Lining CH 4055 - 4055 = 1bay	Wild From West, Lining CH 4085 - 4090 = 1bay	Will From West, Lining CH 4016 - 4050 = 10ey	Will From West, Lining CH 4054 - 4050 = 1bay	Will From West, Living CH 4056 - 4050 = Toay	Will From West, Living CH 4055 - 4650 = 1bay

ty ID	Activity Name	Calendar	Original	Start	Finish	Total			20	115				2016	
			Duration			Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined Tunnel	7d/wk-2	0d		31-Mar-16 18*	-124d								Provide access t	o CWB (CC)
ge and	Section Completion													î	
5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	0d		30-Sep-14 18*	-86d	♦ KD8 - Comple	tion of Section 3, (	1326d)						
5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	Od		16-Oct-14 18*	-323d	♦ KD5 - Achie	evernent of Stage	5, (1152d)						
D_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d		17-Nov-14 18*	-353d	♦ KD1:	3 - Completion of S	Section 7B, (1152d)					i .	
D_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	Od		17-Nov-14 18*	-297d	♦ KD7	- Completion of Se	ection 2, (1152d)		Ť.				
(D_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d		10-Nov-15 18*	-132d					1.0	KD9 - 0	ompletion of Sec	tion 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	Od		25-Mar-16 18	-144d								KD10 - Completion	on of Section f
CD_5750	KD11 - Completion of Section 5, (1949d)	7d/wk-2	0d		23-May-15 18*	-121d								♦ KD11	- Completion
ortion Ha	andover Date					- 2									
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	Portion l	landover - Portion	IV(4), KD8 +28						
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	0d	-	28-Oct-14 18*	-50d	Portion I	landover - Portion	V (5), KD8 +28					4	
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	1	28-Oct-14 18*	-50d	◆ Portion l	landover - Portion	VI (6), KD8 +28						
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	Portion I	Handover - Portion	XIIIB (13B), KD8 +	28					
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	0d	1	28-Od-14 18*	-50d	Portion I	landover - Portion	XXII (22), KD8 +28	3					
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	1	28-Oct-14 18*	-50d	♦ Portion	landover - Portion	III (3), KD8 +28		i i				
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	Dd		15-Dec-14 18*	-79d	۰	Portion Handove	r - Portion XIIIA (13	A), KD7 +28					
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Od	+	15-Dec-14 18*	-79d		Portion Handove	r - Portion VIII (8), h	KD7 +28					
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	1	15-Dec-14 18*	-79d		Portion Handove	r - Portion XIVA (14	A), KD7 +28					
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	0d	-	15-Dec-14 18*	-79d		Portion Handove	r - Portion XV (15),	KD7 +28					
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Od	-	15-Dec-14 18*	-79d		Portion Handove	r - Portion XXIII (23	), KD7 +28					
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	-	30-Nov-15 18*	0d						♦ Po	rtion Handover -	Portion XVIII (18), K	D10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	4	27-Dec-15 18*	Od	3						Portion Hando	ver - Portion XI (11)	KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d								Portion Hai	ndover - Porti
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d					Ť			Portion Har	ndover - Porti
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2		-	22-Apr-16 18*	-52d	1				+			<ul> <li>Portion Har</li> </ul>	ndover - Porti
	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d	1		1					Portion Ha	
CD_5760	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d								Portion Ha	
CD_5780	Land and activity to be set to the	rurwi-2	Jul .		22-rupi-10 10	-024				Catal					1
Actual Remain	Level of Effort  Work  Ining Work  Remaining Work  Contract No. HY/2009/15 - Central	Wan Chai E	By Pass			hoon Sh		Date 26-Sep 1st subn	Prepared by William Revision nission	Checked	Approved	e50Ec		工程(唇港): EUCTION ENGINEERING	

Activity Name	Calendar			Finish					2015			2016	
		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od					į.		•	Portion Hando
Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d							٥	Portion Hando
Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Od		20-Jun-16 18	Od	l II						•	Portion Hando
Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d				1			•	Portion Hando
Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d	l i							Portion Hando
	Portion Handover - Portion VII (7), KD11 +28  Portion Handover - Portion XII (12), KD11 +28  Portion Handover - Portion X (10), KD11 +28  Portion Handover - Portion XXA (20A), KD11 +28	Portion Handover - Portion VII (7), KD11 +28         7d/wk-2           Portion Handover - Portion XII (12), KD11 +28         7d/wk-2           Portion Handover - Portion X (10), KD11 +28         7d/wk-2           Portion Handover - Portion XXA (20A), KD11 +28         7d/wk-2	Duration   Portion Handover - Portion VII (7), KD11 +28   7d/wk-2   0d	Duration	Duration	Duration   Float	Duration   Float   Q4	Duration   Float   Q4   Q1	Duration   Float   Q4   Q1   Q2	Duration   Float   Q4   Q1   Q2   Q3	Duration   Float   Q4   Q1   Q2   Q3   Q4	Duration   Float   Q4   Q1   Q2   Q3   Q4   Q1	Duration   Float   Q4   D1   Q2   Q3   Q4   Q1   Q2

Summary Bar

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

18 of 18

China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

Date	Revision	Checked	Approved
26-Sep	1st submission		

中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG-LTD.

Page 1 of .

CEDD CONTRACT HK/2009/02

#### CEDD CONTRACT HK/2009/02

		On	Dur	Actual Start	Actual Finish		2015	2016
			400	The second second			Dec	Jan Feb Mar Apr
S9B-T34-B3-1020	Base Slab - Rebar Fixing	7		08-Feb-16	14-Feb-16	-680 Calandar Day		Base Slab - Rebar Fixing, Base Slab - Reber Fixing
98-T34-B3-1030	Base Slab - Concrete			15-Feb-16	15-Feb-16	-662 Calendar Day		Base Slab - Concrete, Base Slab - Concrete
S9B-T34-B3-1040	Base Slab - Curing			16-Feb-16	19-Feb-16	-662 Calandar Day		Base Stab - Curing, Base Stab - Curing
S9B-T34-B3-1150	Wall (Middle) - Rebar Fixing & Working Platform		4	15-Mar-16	18-Mar-16	-657 Calendar Day		Wall (Middle) + Rebar Fixing & Warking
598-T34-84-1000	Base Stati - Trim Bored Pile & Blinding	7	7	11-Feb-16	17-Feb-16	-677 Calendar Day		Base Slab + Trim Bored Pile & Blinding, Base Slab - Trim Bored Pile & Blindi
S9B-T34-B4-1010	Base Statt - Waterproofing	4	4	18-Feb-16	21-Feb-16	-677 Calendar Day		Base Slab - Waterproofing, Base Slab - Waterproofing
S9B-T34-B4-1020	Base Slab - Rebar Fixing	7		25-Feb-16	02-Mar-16	-680 Calendar Day		Base Stab - Rebar Fixing, Base Stab - Rebar Fixing
S9B-T34-B4-1030	Base Slab - Concrete	1	1	03-Mar-16	03-Mar-16	-679 Calendar Day		Base Sleb - Concrete, Base Slab - Concrete
59B-T34-B4-1040	Base Slab - Curing	4		04-Mar-15	07-Mar-16	-679 Calendar Day		Base Stab - Curing, Base Stab - Curing
lay 5								
S9B-734-85-1000	Base Slab - Trim Borad Pile & Blinding	7		16-Feb-16	23-Feb-16	-668 Calendar Day		Base Slab - Trim Bored Pile & Brinding, Base Slab - Trim Bored Pile
S9B-T34-B5-1010	Base Steb - Waterproofing	14.	4	23-Feb-18	27-Feb-16	-668 Calendar Day		Base Stab - Waterproofing, Base Stab - Waterproofing
S9B-T34-86-1000	Base Slab - Trim Bored PAs & Blinding	7	7	26-Feb-16	04-Mar-18	-666 Calendar Day		Base Stab - Trim Bored Pile & Blinding, Base Stab - Trim
S98-T34-86-1010	Base Stab - Waterproofing	4	4	04-Mar-16	08-Mar-16	-665 Calendar Day		Base Stab - Waterproofing, Base Stab - Waterproof
S9B-T34-B7-1000	Base Slab - Trim Bored Pile & Blinding	7	7	13-Feb-16	20-Feb-16	-672 Calendar Day		Base Stab - Trim Bored Pile & Blinding, Base Stab - Trim Bored Pile & B
598-T34-87-1010	Base Slab - Waterproofing	4		20-Feb-16	24-Feb-16	-672 Calendar Day		Base Slab - Waterproofing, Base Slab - Waterproofing
S9B-T34-B7-1020	Base Slab - Rebar Fixing	7		03-Mar-16	09-Mar-16	-680 Calendar Day		Base Slab - Rebat Fixing, Base Slab - Rebat Fixing
ay B								
S98-T34-B8-1000	Base Slab - Trim Bored Pile & Blinding	7		19-Feb-16	26+Feb-16	-566. Calendar Day		Base Slatt - Trim Bored Pile & Birnding, Base Slatt - Trim Bored
S98-T34-B8-1010	Base Slab - Waterproofing	4	4	26-Feb-16	01-Mar-16	-565 Calendar Day		Base Slab - Waterproofing Base Stab - Waterproofing
S98-T34-B9-1000	Base Stab - Trim Bored Pile & Blinding	7	7	04-Mar-16	11-Ma/-16	-665 Calendar Day		Base Slab - Tem Bond Pile & Bleding, Base S
S98-T34-B9-1010	Base Slab - Waterproofing	4		11-Mar-16	15-Mar-16	-665 Calendar Day		Base Slab - Waterproofing, Base Slab - W
ay 10				-	-			
S98-T34-B10-1000	Base Stab - Trim Bored Pile & Blinding	1	7	15-Mar-16	22-Mar-16	-666 Galendar Day		Base Stab - Trim Bored Pile & Blir
S98-T34-B11-1000	Base Slab - Trim Bored Pile & Blinding	7	7	08-Mar-16	15-Mar-16	-666 Calendar Day		Base State - Trim Bornd Pile & Blinding, Ba
598-T34-B11-1010	Base Slab - Waterproofing	4	4	15-Mur-18	19-Mar-16	-664 Calendar Day		Base Stab - Waterproofing, Base Stat
lay 13			_	12 5 4 10	20 505 10	and Colored Day		Base Slab - Trim Bored Pile & Blinding, Base Slab - Trim Bored Pile & B
59B-T34-B13-1000	Base Slab - Trim Bored Pile & Blinding		. 4	13-Feb-16 20-Feb-16	20-Feb-16 24-Feb-16	-623 Calendar Day -623 Calendar Day		Base Slab - Waterproofing, Base Slab - Waterproofing
S98-T34-B13-1010	Base Slab - Waterproofing			24-Feb-16	02-Mar-16	The second secon		
S9B-T34-B13-1020	Base Slab - Rebar Fixing	1			EM-71100 146	-823 Calendar Day		Base Slab - Rebar Fixing, Base Slab - Rebar Fixing
\$98-T34-B13-1030	Base Stab - Concrete	1		02-Mar-16 03-Mar-16	03-Mar-16 07-Mar-16	-623 Calendar Day -623 Calendar Day		Base Slab - Concrete Base Slab - Concrete  Base Slab - Curing Base Slab - Curing
S98-T34-B13-1040	Base Siab - Curing	- 1	-	U3-Mar-16	Ur-Mar-16	-623 Calendar Day		Base Slab - Curing, Base Slab - Curing
S98-T34-814-0990	Base Stab - Trim Bored Pile & Blinding	7	7	20-Feb-16	27-Feb-16	-606. Calendar Day		Base Slab - Trim Bored Pile & Blinding, Base Slab - Trim Bored
S9B-T34-B14-1000	Base Stab - Waterproofing	4	- 4	29-Feb-16	04-Mar-18	-602 Calendar Day		Base Slab - Waterproofing, Base Slab - Waterproofing
S98-T34-B14-1010	Base Slab - Rebar Fixing	10	10	04-Mar-16	14-Mar-16	-594 Calendar Day		Base Slab - Rebar Fixing, Base Slab - Rebar
S9B-T34-B15-0990	Base Stab - Trim Bored Pile & Blinding	,	-	27-Feb-15	05-Mar-16	-606 Calendar Day		Base Slab - Trim Bored Pile & Blinding, Base Slab - Tr
598-T34-B15-1000	Base Slab - Waterproofing	4		05-Mar-16	09-Mar-16	-803 Calendar Day		Base Stab - Waterproofing, Base Stab - Waterpro
S9B-T34-B15-1010	Base Stati - Rebar Fixing	7		09-Mar-16	16-Mar-16	-598 Calendar Day		Base Slab - Rebay Fixing, Base Slab - Re
598-134-B15-1010	base stad - Repair Fixing		_	109-Mail+16	(0-Milit-10)	-596 Calendar Day		Data and - Legal Local Data and - u
S9B-T34-B16-0990	Base Slab - Trim Bored Pile & Blinding	7	7	05-Mar-16	12-Mar-16	+606 Calendar Day		Base Slab - Trim Bonid Pile & Blinding, Base
S9B-T34-B16-1000	Base Slab - Waterproofing	X.	4	12-Mar-16	16-Mar-16	-606 Calendar Day		Base Slab - Waterproofing, Base Slab -
S9B-T34-B16-1010	Base Slab - Regar Fixing	10	10	16-Mar-16	26-Mar+16	-606 Calendar Day		Base Slab - Rebar Fiving, B
Bay 17								
S98-T34-B17-0990	Base Slab - Trim Bored Pile & Blinding	1		20-Feb-16	27-Feb-16	-599 Calendar Day		Base Slab - Trim Bored Pile & Brinding Base Slab - Trim Borel
S98-T34-B17-1000	Base Slab - Waterproofing	4		27-Feb-16	02-Mar-16	-589 Calendar Day		Base Slab - Waterproofing, Base Slab - Waterproofing
S98-T34-817-1010	Base Slab - Reber Fixing	7		02-Mar-16	09-Mar-16	-589 Calendar Day		Base Slab - Rebar Fixing, Base Slab - Rebar Fix
S9B-T34-B17-1020	Base Stab - Concrete		- 1	09-Mar-16	10-Mar-16	-589 Calendar Day		Base Slab - Concrete
S9B-T34-B18-1000	Base Slap - Trim Bored Pile & Blinding	8	5	27-Feb-16	03-Mar-16	-599 Calendar Day		Base Slab - Tem Bored Pile & Blinding, Base Slab - Tem
	Base Slab - Waterproofing	3		03-Mar-16	06-Mar-16	ACCOUNT OF THE PARTY OF THE PAR		

Critical Milestones
 Current Works
 Critical Works

CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02

WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Dec-15)

20-Dec-15		2000
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#### CEDD CONTRACT HK/2009/02

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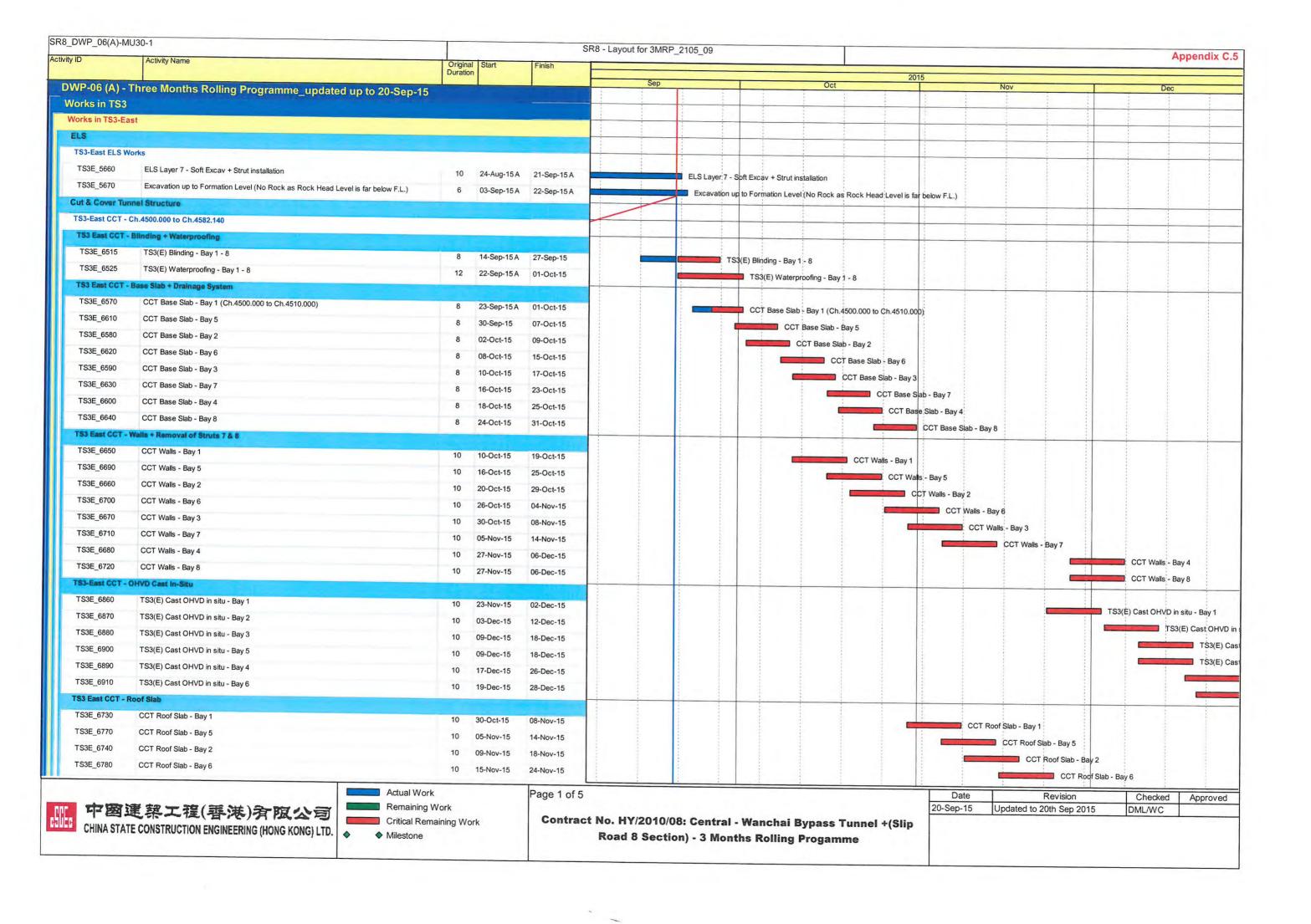
Ivity ID	Activity Name	On	Rem	Scheduled/ Actual Start	Scheduled	Total Float Calendar	2015				
		Dur	Dur	Actus Start	Actual Finish		Dec	280	Feb	2016 Mar	Apr
S98-T34-B18-1020	Base Slab - Rebar Fixing	7	7	06-Mar-16	13-Mar-16	-599 Calendar Day	500	407	7.60	Base Slab - Rebu	Fixing, Base Slab - Reber Fi
Section 10 Works	- CWB Tunnel Structure (CH3246 - CH3400)										
Tunnel Portion 5 (C	H3276-GH3400)										
\$10-75-0900	Si for Bored Piling works	53	7	02-Nov-15 A	30-Dec-15	-537 HK Working Day		St for Bored Piling works	St for Bored Plang works		
S10-T5-1000	Plant Setup, Guidewall, Critical Pre-Drilling & Ground Treatment for D-Walt Construction f.	36	36	21-Dec-15	10-Feb-16	-804 HK Working Day			Plant Setup, Gu	idewall, Critical Pre-Drilling & Ground Trea	tment for D-Wall Construction
\$10-75-1005	Mobilisation for Bored Pilling	11	0	13-Nov-15 A	15-Dec-15 A	HK Working Day	Mo	Reation for Bored Pilling		The second secon	
S10-T5-1010	Tunnel Portion 5 Stage 1 D-wall (29 nos. Panels; 7d/panel; 3G+1C)	58	58	27-Jan-18	07-Apr-16	-604 HK Working Day		- 74			Tunnel Partion 5
S10-T5-1030	Tunnel Portion & Stage 1 Bored Pile + 15nr. (3 sets @ 14d/pile)	58	26	17-Nov-15 A	29-Jan-16	-583 HK Working Day			Tunnel Portion 5 Stage 1 Bore	d Pile - 15nr. (3 sets @ 14d/pile). Tunnel P	odion 5 Stage 1 Bored Pile -
\$10-75-1050	Tunnel Portion 5 Stage Z Bored Pile - 14nr. (3 sets @ 14drpte)	58	58	30-Jan-16	11-Apr-16	-583 HK Working Day					Tunnel Port
Section 11 of the	Works - Remainder of Works										
Marine Works at WO	DR3										
S11-R3-1410	Demolition of Remaining Ferry Pier	1.7	0	04-Dec-15 A	08-Dec-15 A	Calendar Day	Demolition of	Remaining Ferry Pier			
S11-R3-1820	Type A Fill Stage 2 from (6.0mPD behind Caisson Seawats (2.000m3)	9	0	02-Nov-15 A	21-Nov-15 A	Calendar Day	ype A Fill Stage 2 from -6.0mPt	behind Calisson Seawal's (2,000m3)			
S11-R3-1840	Placing Geoteville and Filter Stage 2 from -6.0mPD (1,000m3)	9	0	05-Nov-15 A	25-Nov-15 A	Calendar Day	Placing Geotexile and Filter	Stage 2 from -6,0mPD (1,000m3)			
S11-R3-1900	2nd Stage Reclamation from -7.0mPD to +2.5mPD (75,000m3 @ 1000m3/a)	71	0	01-Nov-15 A	04-Dec-15 A	Calendar Day	2nd Stage Recia	nation from -7 0mPD to +2.5mPD (75,000m	n3 @ 1000m3/d)		
\$11-R3-2000	Remaining Reclamation to *4,0mPD (25000m3 @ 1000m3/d)	22	22	24-Nov-15 A	11-Jan-16	-754 Calendar Day		Remaining F	teclamation to +4,0mPD (25000m3 @ 10	000m3/d). Remaining Reclamation to +4.0s	nPD (25000m3 @ 1000m3/d)
Formation and Hare	Landscaping Works										1
S11+FM+2000A	Tuttnet Portion 2 Backfilling (35,000m3; 750m3/d)	77	22	25-Sep-15-A	19-Jan-16	-79 Calendar Day		Ti	onnel Ponton 2 Backfilling (35,000m3; 750	0m3/d), Tunnel Portion 2 Backfilling (35.00	0m3: 750m3/d)
S11-FM-2000B	Completion of Tunnel Porton 2 Backfilling	0	0		19-Jan-16	-56 Calendar Day		• 0	empletion of Tunnel Portion 2 Backfilling	Company of the Compan	C. Injustice of
Soft Landscaping	& Establishment Works							1			
Section 8D of the W	orks - Establishment Works in Area 8										
58D-0010	Carry out establishment work on new ferry pier	288	224	28-Aug-15 A	27-Aug-16	-2 7-Day Workweek					

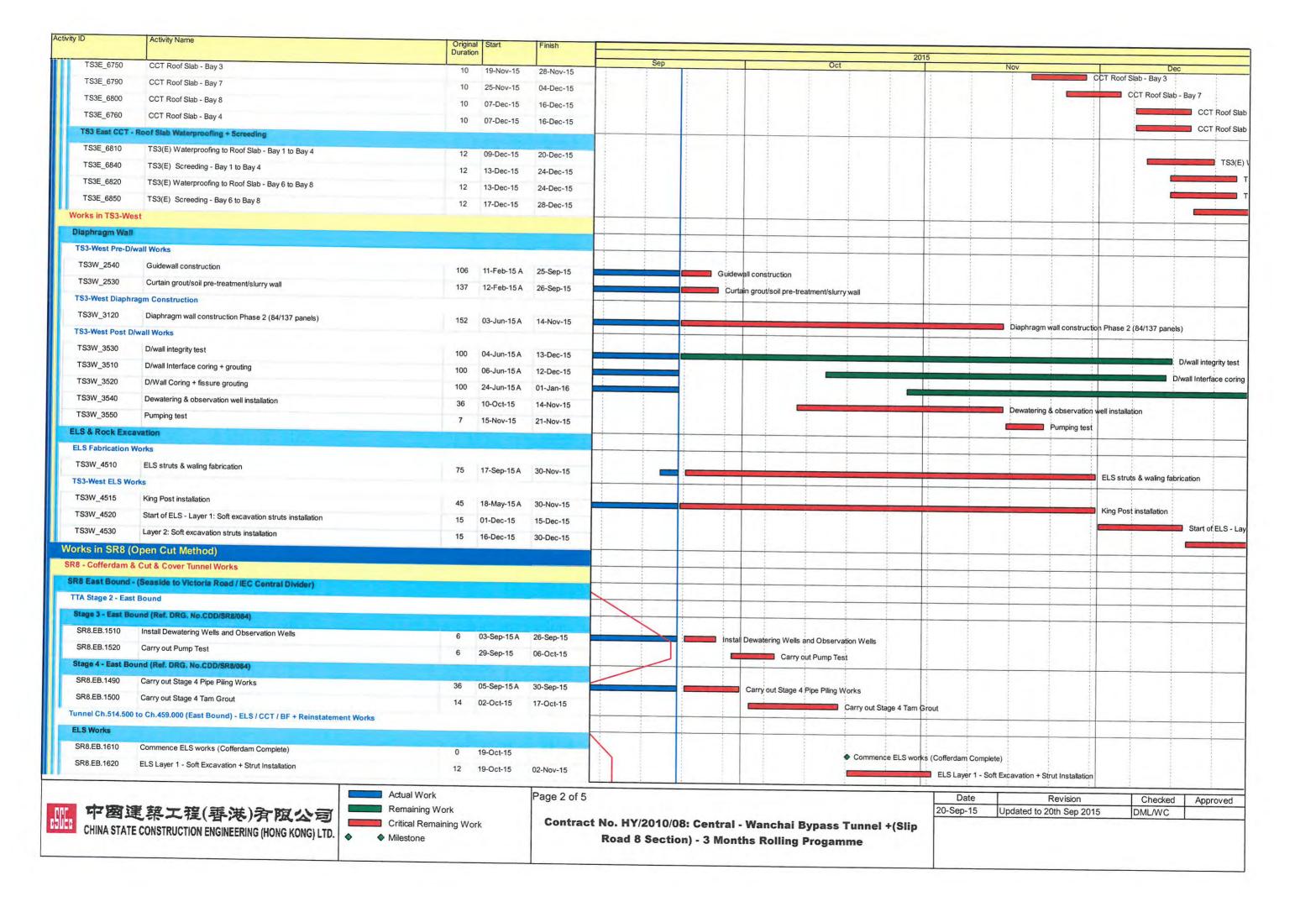
Milestone
 Critical Milestones
 Current Works
 Critical Works

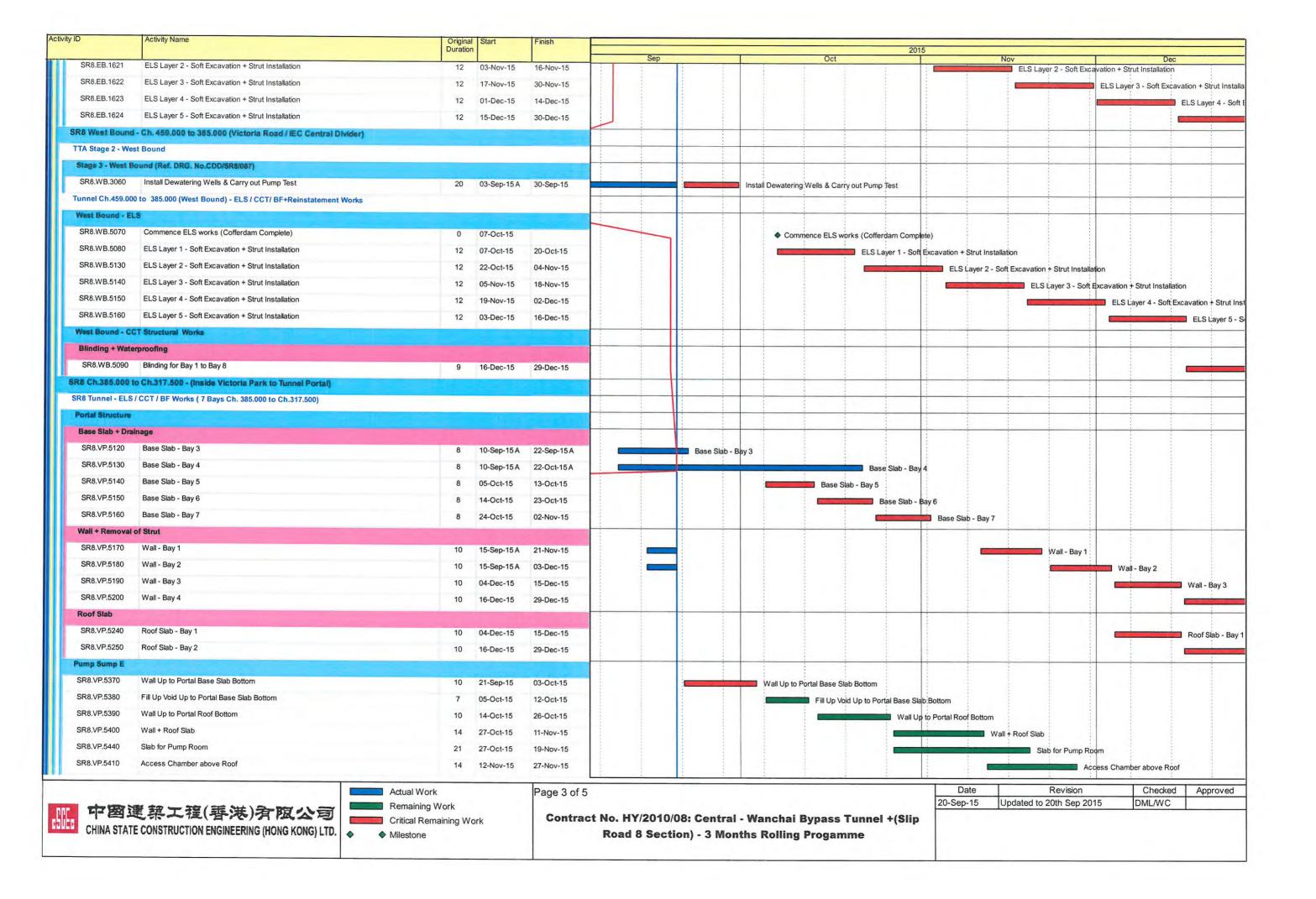
CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02

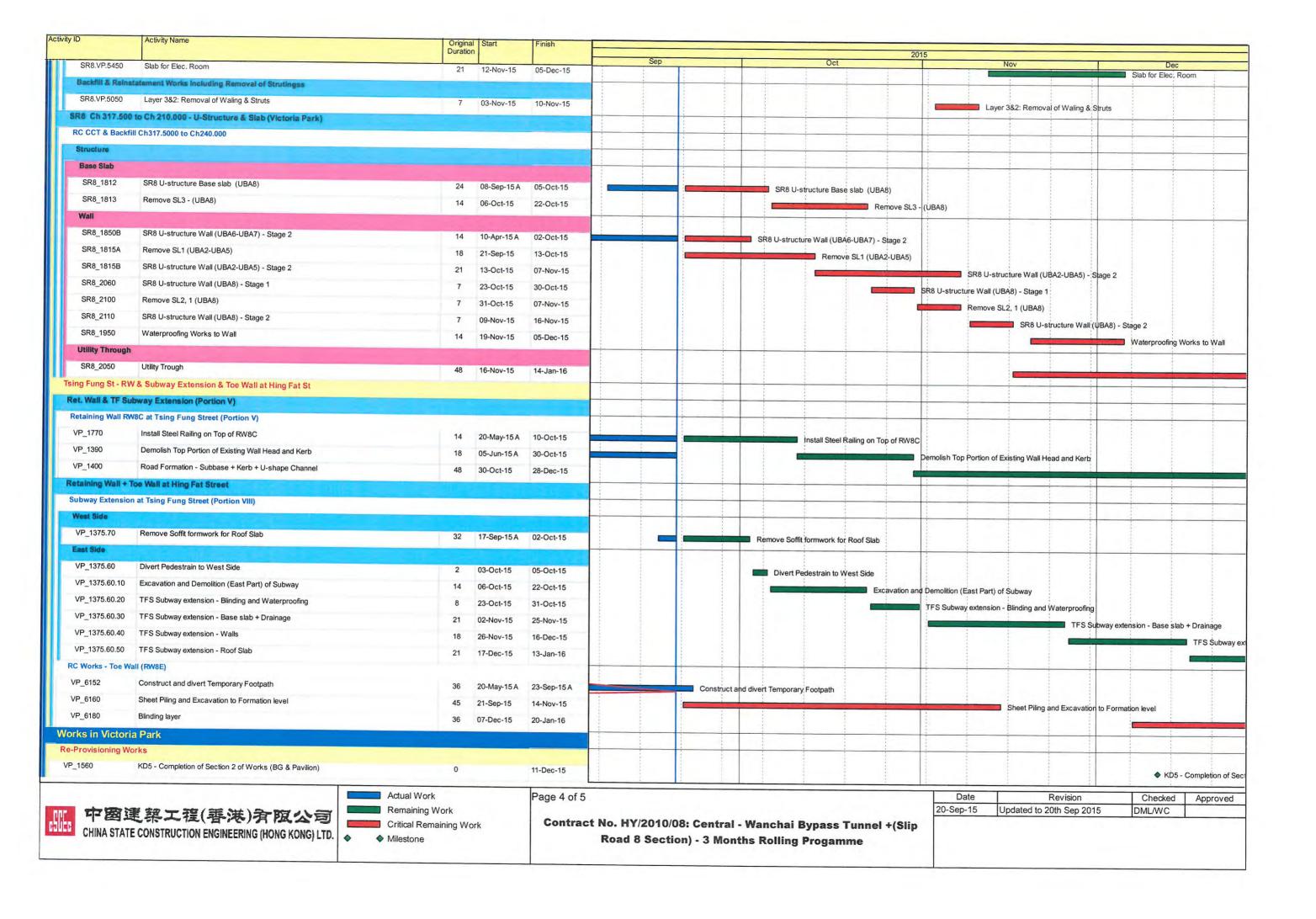
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Dec-15)

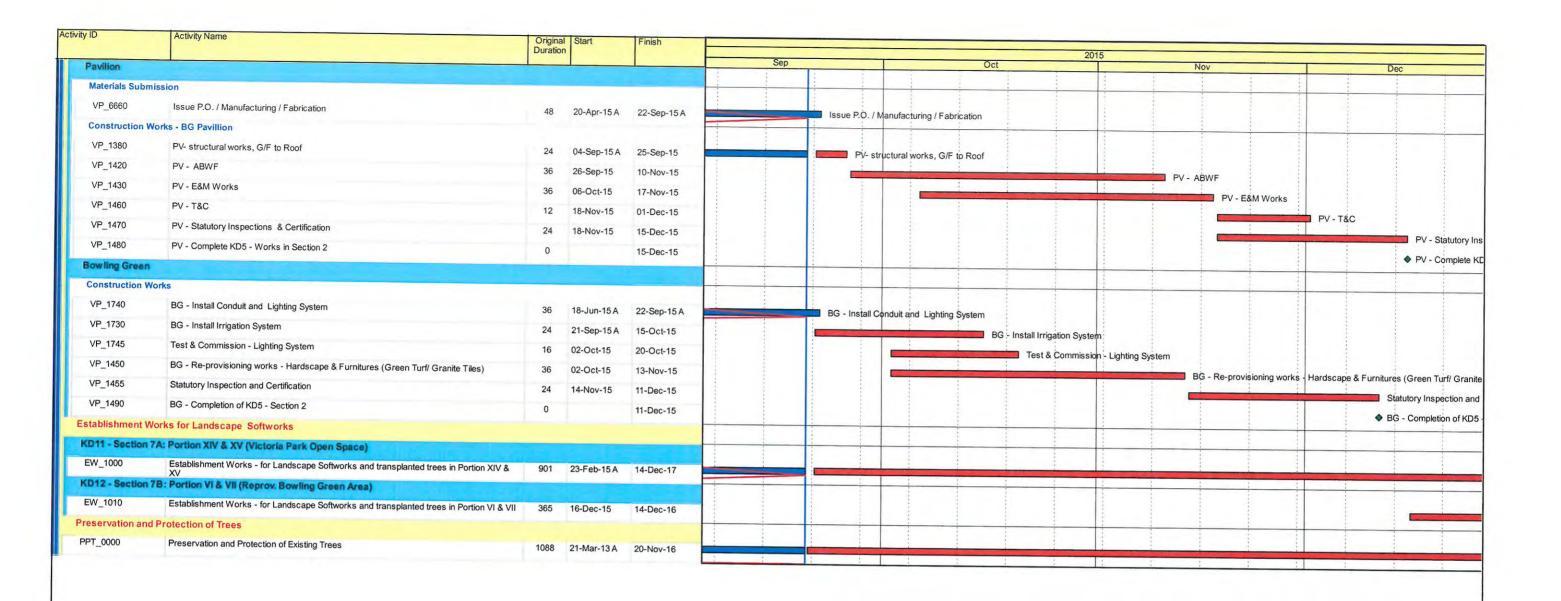
Date	Revision	Checked	Approved
0-Dec-15			



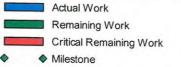












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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-Sep-15	Updated to 20th Sep 2015	DML/WC	



CEDD Contract No. HK/2012/08 **Wan Chai Development Phase II** Central - Wan Chai Bypass at Wan Chai West Page: 1 / 7





### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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	SIMASIAIL I						iai bypass at waii oii				
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish		2015 Dec		Jan	2016	Feb	Mar
SII11220	Sec II - MVB A - Remove Strut SL3 and SL2	5	30-Nov-15	04-Dec-15							
SII11280	Sec II - MVB A: Remove Strut SL1	5	30-Nov-15	04-Dec-15							
MVB Substi	ructure - ELS & Structural Works for Portion B										
MVB Substi	ucture - Structural Works for Portion B										
SII11780	Sec II - MVB B: Construct B3/F base slab	6	29-Sep-15 A	05-Dec-15							
SII11800	Sec II - MVB B: Construct B3/F wall, colum & base	64	07-Dec-15	27-Feb-16	1						_
SII11820	slab Sec II - MVB B: remove strut SL8, SL7	5	30-Nov-15	04-Dec-15							
SII11860	Sec II - MVB B: Remove Strut SL6 & SL5	5	30-Nov-15	04-Dec-15							
SII11900	Sec II - MVB B: Remove Strut SL4 & SL3	5	30-Nov-15	04-Dec-15							
SII11940	Sec II - MVB B: Remove Strut SL2	4	30-Nov-15	03-Dec-15							
MVB Substi	ructure - Piling Works										
	bored H Piles										
SII10400	Sec II - MVB C - construct prebored H-piles	37	20-Nov-15 A	14-Jan-16							
	ructure - Diaphragm Wall for Portion C										
	nping Test Preparation/ Pumping Test										
SII10660	Sec II - MVB C - sheetpile wall installation	30	15-Jan-16	24-Feb-16	<u> </u>						
SII10680	Sec II - MVB C - Precaution grout / fissure grout	35	17-Feb-16	28-Mar-16	-						
	- CWB Tunnel & Slip Road Structures and Facilities		1, 100 10	20 1 101 20							
CWB A2(2)											
	- Dwall & Piling										
		22	06 Oct 15 A	24 Dec 15							
SIIA15320			06-Oct-15 A	24-Dec-15							
SIIA15360		57	16-Nov-15 A	06-Feb-16							
SIIA15400		40	03-Dec-15	21-Jan-16							
SIIA15420		15	30-Nov-15	16-Dec-15							
	- Pumping Test Preparation/ Pumping Test										
CWB A2 - F	umping Test Preparation										
	Sec II A - CWB A2 : Install dewatering/ recharging/ observation well	30	17-Dec-15	23-Jan-16							
CWB A2 &											
	Sec II A - CWB A2 : Pumping Test	10	13-Feb-16	24-Feb-16							
CWB A2 (2)	- ELS & Tunnel Structure										
CWB A2 - E	LS										
SIIA12440	Sec II A - CWB A2 : shoring & excavation	31	13-Feb-16	19-Mar-16							
SIIA12445	Sec II A - CWB A2 : demolition of temp bulk head wall at west end	30	15-Feb-16	19-Mar-16							
SIIA12448	Sec IIA - CWB A2 : demolition of temp bulk head wall at East end	30	15-Feb-16	19-Mar-16							
CWB B (& A											
CWB B - Dw	all & Piling										
SIIA11560	Sec II A - CWB B: Concrete Plug (MTR TWL)	15	15-Jun-15 A	16-Dec-15	-						
CWB B - ELS	& Tunnel Structure										
CWB B - EL	s										
SIIA13520	Sec II A - CWB B: Shoring & Excavation	26	22-Oct-15 A	31-Dec-15							



### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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	STIMA OTATE E					Bypass at Wall Ollai West			
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015 Dec	Jan	2016	Feb	Mar
SIIA13540	Sec II A - CWB B: Demolish Sheetpile Bulkhead wall at Concrete Plug	35	30-Nov-15	12-Jan-16					
CWB B - Tur	nel Structure								
SIIA13560	Sec II A - CWB B: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16					_
SIIA13600	Sec II A - CWB B: base, wall, OHVD & roof (bay 2)	45	20-Jan-16	17-Mar-16					_
SIIA13660		45	20-Jan-16	17-Mar-16					
CWB C (W)									
_	Owall Construction								
SIIA11960	Sec II A - CWB CW: Concrete Plug (MTR TWL)	14	16-Jun-15 A	15-Dec-15					
SIIA11980	Sec II A - CWB CW: D-wall contact grout / fissure	21	21-Aug-15 A	23-Dec-15					
	grout								
SIIA12000	Sec II A - CWB CW: Dwall sonic test / interface core	19	17-Aug-15 A	21-Dec-15					
	Pumping Test Preparation/ Pumping Test								
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/ observation wells	40	30-Nov-15	18-Jan-16					
SIIA12040	Sec II A - CWB CW: Pumping Test	8	19-Jan-16	26-Jan-16					
CWB C(W) - I	LS & Tunnel Structure								
CWB C(W) -	ELS								
SIIA12080	Sec II A - CWB CW: Shoring & Excavation	26	30-Nov-15	31-Dec-15					
SIIA12120	Sec II A - CWB CW: Demolish Sheetpile Bulkhead at	26	30-Nov-15	31-Dec-15	- <u>i</u>				
CWB C(W) -	Concrete Plug Tunnel Structure								
SIIA12140	Sec II A - CWB CW: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16					_
SIIA12180	Sec II A - CWB CW: base, wall, OHVD & roof (bay 2)	45	14-Jan-16	11-Mar-16					_
CWB C (E)									
	nabling Work - Dwall Construction								
	g Work - Dwall Construction								
	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	30	30-Nov-15	06-Jan-16					
SIIA15520	Remaining [7 panels]	76	18-Feb-15 A	05-Mar-16					
	umping Test Preparation/ Pumping Test								
SIIA13060	Sec II A - CWB CE: Grout curtain for Dwall	45	25-Jan-16	22-Mar-16					
SIIA13080	Sec II A - CWB CE: Dwall sonic test / interface core	45	25-Jan-16	22-Mar-16					
CWB C(E) - E	.S & Tunnel Structure								
CWB C(E) - I	ils								
SIIA13160	Sec II A - CWB CE: Shoring & Excavation(Uppn Completion of MVB Structure - B2 Slab)	45	30-Nov-15	23-Jan-16					
SIIA13170	Sec II A - CWB CE: Demolish Bulkhead at East End (adj. to bay 1)	26	22-Dec-15	23-Jan-16					
SIIA13180	Sec II A - CWB CE: Demolish Bulkhead at MVB (adj. to	30	17-Dec-15	23-Jan-16					
CWB C(E) - 1	bay 3) iunnel Structure								
SIIA13220	Sec II A - CWB CE: base, wall, OHVD & roof (bay 1)	45	25-Jan-16	22-Mar-16					-
SIIA13260	Sec II A - CWB CE: base, wall, OHVD & roof (bay 2)	45	17-Feb-16	13-Apr-16					
	Sec II A - CWB CE: base, wall, OHVD & roof (bay 3)	45	17-Feb-16	13-Apr-16					
CWB C - Exh		-		p					
	Cas W.A. Subsect Doct at Clip D42. Declared U. cile	22	20.51 47	00.7					
SIIA12840	Sec II A - Exhaust Duct at Slip Rd3: Prebored H-pile	32	30-Nov-15	08-Jan-16					



CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West Page : 4 / 7

	OI MA OIAIL				Ochtrar - Wan Onar Dypass at Wan Onar West	
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015         2016           Dec         Jan	Feb Mar
SIIA12860	Sec II A - Exhaust Duct at Slip Rd3: Loading Test	21	09-Jan-16	02-Feb-16		
CWB C - Exh	aust Duct Temp Work & ELS					
SIIA12880	Sec II A - Exhaust Duct at Slip Rd3: Temp. Sheetpiling	30	09-Jan-16	18-Feb-16		
SIIA12900	Sec II A - Exhaust Duct at Slip Rd3: Excavation &	35	19-Feb-16	30-Mar-16		
CWB D - Sli	Shoring p Road 1					
CWB D - Slip	Road 1 - Dwall Construction & Piling					
SIIA12340	Sec II A - CWB SR1: Concrete Plug (MTR TWL)	32	12-Aug-15 A	08-Jan-16		
	Road 1 - Pumping Test Preparation/ Pumping Test		.5 .			
SIIA12360		60	30-Nov-15	16-Feb-16		
SIIA12380	Dwall		30-Nov-15	16-Feb-16		
	Sec II A - CWB SR1: Dwall sonic test / interface core					
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	45	31-Dec-15	27-Feb-16		
	Road 1 - ELS & Tunnel Structure					
	p Road 1 - ELS					
SIIA12460	Sec II A - CWB SR1: Shoring & Excavation	37	30-Nov-15	14-Jan-16		
CWB D - Sli	p Road 1 - Tunnel Structure					
SIIA12480	Sec II A - CWB SR1: Demolish Sheetpile Bulkhead at Concrete Plug	45	30-Nov-15	23-Jan-16		
SIIA12500	Sec II A - CWB SR1: base, wall & roof (bay 1)	40	15-Jan-16	07-Mar-16		
SIIA12520	Sec II A - CWB SR1: base, wall & roof (bay 2)	40	27-Jan-16	18-Mar-16		
SIIA12540	Sec II A - CWB SR1: base, wall & roof (bay 3)	40	13-Feb-16	30-Mar-16		
SIIA12560	Sec II A - CWB SR1: base, wall & roof (bay 4)	40	25-Feb-16	15-Apr-16		
CWB D - Sli	p Road 1 - Trough / Retaining Wall					
CWB D - Slip	Road 1 - Trough/Retaining Wall Temp Work & ELS					
SIIA12740	Sec II A - CWB SR1 Trough & RW: Preboring for	14	29-Jan-16	19-Feb-16		
SIIA12760	installing Sheetpile Sec II A - CWB SR1 Trough & RW: install sheetpile	21	20-Feb-16	15-Mar-16		
	Road D11 & Part of Road P2, Area 4, Implement 1s	t Stage ITA				
Roadwork 8		<b>5</b>				
General						
SIII10485	Sec III - 1st Stage of Interim Traffic Arrangement -	16	19-Jan-16	05-Feb-16		
	miscellaneous works		19-3411-10	05-Feb-10		
	- Road A2, A4, A5, Area 11; Implement 2nd Stage I	LIA				
	Utilities at A1					
SIIIA10260	to pavement founding level	70	18-Feb-16	16-May-16		
Section VI A	- Box Culvert La, L1 & FRP-L Construction					
Sec VI C - B	ox Culvert La bay 4 (North)					
CUL11660	Sec VI C - Culvert L - bay 4 - backfill	30	30-Nov-15	06-Jan-16		
Box Culvert	L1 & FRP-L Construction (Bay 5 - Bay 7)					
Box Culvert	L1 & FRP-L - Bay 5 to 7 Structure					
Box Culvert	L1 & FRP-L - Precast Unit Fabrication (Box Structure)					
CUL10872		11	29-Jun-15 A	11-Dec-15		
CUL10873		12	12-Dec-15	28-Dec-15		
Box Culvert	formwork and curing for precast culvert units L1 & FRP-L - Bay 5 & 6 Backfill & Others					
	-					i



#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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	CHINASTATE - L	EADER JU	DINI VENTUR		Central - Wall Chai bypass at Wall Chai West		
tivity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015 Jan	2016	Feb N
CUL10878	Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	30	22-Oct-15 A	06-Jan-16	Dec Jan		reu
CUL10879	Sec VI C - Culvert L - bay 5, 6 - trim to formation level	10	07-Jan-16	18-Jan-16			
Box Culvert	and handover Area 6  L1 & FRP-L - Bay 7 Backfill & Others						
CUL11785	Sec VI C - Culvert L - bay 7 - Diversion of flow from	5	15-Feb-16*	19-Feb-16			
CUL11800	temp channel into Cul L  Sec VI C - Culvert L - bay 7 - backfill to +4.0mPD	35	20-Feb-16	31-Mar-16			
	1 & FRP-L - Bay 12 to 13						
	.1 & FRP-L - Bay 12 to 13 Piling						
CUL12356	Culvert L - bay 13 - construct pre-bored H-pile (PC10	30	01-Dec-15*	07-Jan-16			
	& PC11)	30	01-Dec-13	07-Jan-10			
	L1 & FRP-L - Bay 12 to 13 Temp Work & ELS		20.2				
CUL12480	Culvert L - bay 12 & 13 - pile head treatment and construct pile cap PC9, PC10 & PC11	30	08-Jan-16	17-Feb-16			
	L1 & FRP-L - Bay 12 to 13 Structure						
CUL12545	Culvert L - bay 12 & 13 - Construct Precast Units (off site)	45	08-Dec-15*	01-Feb-16			
CUL12548	Culvert L - bay 12 & 13 - Deliver and Install Precast Units	7	18-Feb-16	25-Feb-16			
Section VI C -	Area 3, 6, 8A & 8C						
Area 8A & 80	- Seawall Modification						
Modification	of Seawall						
Modification	of Seawall - Zone 1 & 2						
PRS10060	Sec VIC - Working Platform & P7 to P17, P18,	10	30-Nov-15	10-Dec-15			
PRS10080	P18A,P23,P24, P32 -P34 & P32A-P34A (DTH)  Sec VIC - Working Platform & P59, P59A, P60, P60A,	39	21-Dec-15	06-Feb-16			
PRS10085	P61, P61A, P62, P62A , P63-P66 (DTH) Sec VIC - Curtain Grout (DTH)	49	11-Dec-15	15-Feb-16			
Modification	of Seawall - Zone 4						
PRS10160	Sec VIC - Working Platform (Zone 4)	8	30-Nov-15	08-Dec-15			
PRS10180	Sec VIC - Pipe Pile P63 to P68 & P64A (Zone 4)	10	09-Dec-15	19-Dec-15			
Area 8A - MT	R Pump Room Clearance & Handover						
PRS-1060	Sec VI C - Clearance of pump house for Handover	5	04-Feb-16	15-Feb-16			
Area 6 - Box	Culvert bay 5-6						
SVIC10020	Sec VI C - backfill to formation level at Area 6	30	30-Nov-15	06-Jan-16			
SVIC10040	Sec VI C - U-Channel and ug utilities at Area 6	18	07-Jan-16	27-Jan-16			
	Culvert bay 4 and Roadwork						
SVIC10240	Sec VI C - reinstate and compact sub-base above	7	07-Jan-16	14-Jan-16			
SVIC10260	Culvert L Bay 4 in Area 3 Sec VI C - reinstate road kerb in Area 3	6	07-Jan-16	13-Jan-16			
SVIC10280	Sec VI C - reinstate flexible pavement in Area 3	6	14-Jan-16	20-Jan-16			
SVIC10200	Sec VI C - reinstate footpath in Area 3	5	21-Jan-16	26-Jan-16			
SVIC10300	Sec VI C - reinstate tootpath in Area 3	1	26-Jan-16	26-Jan-16			
	Area 3	1	20-Jd11-10	∠0-14H-1D			
	Area 8B & 10						
WDII Box 1							
	ubmission and Approval / Material Procurement						
PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	29	02-Jan-16*	04-Feb-16			
	xisting Pile Head and Dry Dock						
WD-C3030	Sec VI D - form dry dock / waterproofing for Box 1 structure	26	15-Oct-15 A	31-Dec-15			
/III							



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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015  Dec Jan	2016	Feb	Mar
WD-C303	head wall)	54	06-Feb-16	19-Apr-16				
WDII Box	I Existing Pile Head Treatment							
PRS1026	Sec VIC - Pile Head at Pile A3	12	30-Nov-15	12-Dec-15				
PRS1028	Sec VIC - Pile Head at Pile A4	13	14-Dec-15	30-Dec-15				
PRS1030	Sec VIC - Pile Head at Pile B3	13	31-Dec-15	15-Jan-16				
PRS1032	Sec VIC - Pile Head at Pile B4	12	16-Jan-16	29-Jan-16				
WDII Box	I ELS							
WD-C399	Sec VIC - Removal of Platform of Bored Pile	2	13-Feb-16	15-Feb-16			_	
WD-C399	Sec VIC - Install Column, C1, Struct S1 & RS1	11	16-Feb-16	27-Feb-16				
Section VI	- Remainder Works							
Landing S	eps Construction							
<b>  </b>  _	teps BSW9							
SVII1110		24	30-Nov-15	29-Dec-15				
	concrete coping			15-Jan-16				
SVII1112	formwork		30-Dec-15					
SVII1114	/ step fender		16-Jan-16	26-Jan-16				
SVII1116	tactile / sign board / bollard		27-Jan-16	27-Feb-16				
Demolitio	of Interim Landing Steps and Construct Permanent S	eawall at CRII						
SVII10220	Sec VII - remove interim landing steps - protect open cut slope	2	30-Nov-15	01-Dec-15				
SVII10240	Sec VII - remove interim landing steps - remove old seawall wall blocks	6	02-Dec-15	08-Dec-15				
SVII10260	Sec VII - seawall - remove old rubble mound and dredging	6	09-Dec-15	15-Dec-15				
SVII10280	Sec VII - seawall - final hydrographic survey	7	16-Dec-15	23-Dec-15				
SVII10300	Sec VII - seawall - [summary] fill rubble mound	13	02-Oct-15 A	14-Dec-15				
SVII10320	Sec VII - seawall - [summary] place caisson seawall type 1B(4), 2D and 1	27	02-Nov-15 A	02-Jan-16				
SVII10380		26	04-Jan-16	02-Feb-16				
Promenad	e Seawall Parapet Construction							
SVII10400		120	30-Nov-15*	30-Apr-16				
Section VI	& backfill to pavement formation  I - Landscape Softworks							
Soft Lands	caping Works							
SVIII1004	Sec VIII - Trees Planting	180	18-Dec-15	02-Aug-16				
Section X -	Protection & Preservation of Trees							
Soft Lands	caping Works							
SX10020	Sec X - Protection & Preservation of Trees	600	31-Jan-13 A	21-Jul-17				
VO : Cons	ruction of Box 4A & 4B							
1005	Summary of Variation Order: Box 4A & 4B	130	15-Jan-16	23-May-16				
Box 4A								
A1010	Summary of concrete fill with 300 dia. carrier drain, 5	15	15-Jan-16	01-Feb-16				
A1011	bays (ave. t = 1.875m x approx. 50m)  Concrete fill with 300 dia. carrier drain: bay 1	3	15-Jan-16	18-Jan-16				
A1012	Concrete fill with 300 dia. carrier drain: bay 2	3	19-Jan-16	21-Jan-16				
A1013	Concrete fill with 300 dia. carrier drain: bay 3	3	22-Jan-16	25-Jan-16				
A1013	Concrete fill with 300 dia. carrier drain: bay 4	3	26-Jan-16	28-Jan-16				
AIUI4	Considere iii wiri 500 dia. Carrei diaiii. Day 4	3	20-Jai1*10	20-Jan=10				



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ivity ID	Activity Name	Remaining Dur	Early Start	Start Early Finish	2015	2016		
					Dec	Jan	Feb	Mar
A1015	Concrete fill with 300 dia. carrier drain: bay 5	3	29-Jan-16	01-Feb-16				
A1020	Summary of falseworks & fomworks for internal suspended slab	46	19-Jan-16	04-Mar-16				<del></del>
A1021	Falseworks & fomworks for internal suspended slab: bay 1	7	19-Jan-16	26-Jan-16				
A1022	Falseworks & fomworks for internal suspended slab: bay 2	7	27-Jan-16	03-Feb-16		I		
A1023	Falseworks & fomworks for internal suspended slab: bay 3	7	04-Feb-16	17-Feb-16				
A1024	Falseworks & fomworks for internal suspended slab: bay 4	7	18-Feb-16	25-Feb-16				
A1025	Falseworks & fomworks for internal suspended slab: bay 5	7	26-Feb-16	04-Mar-16				<del></del>
A1030	Summary of internal suspended slab, 5 bays (t = 200mm x approx. 50m)	45	27-Jan-16	11-Mar-16		•		1
A1031	Internal suspended slab - bay 1: rebars & casting	6	27-Jan-16	02-Feb-16		I		
A1032	Internal suspended slab - bay 2: rebars & casting	6	04-Feb-16	16-Feb-16				
A1033	Internal suspended slab - bay 3: rebars & casting	6	18-Feb-16	24-Feb-16				
A1034	Internal suspended slab - bay 4: rebars & casting	6	26-Feb-16	03-Mar-16				$\overline{}$
A1040	Summary of internal wall, 5 bays (t = 200mm x approx. 50m)	45	03-Feb-16	18-Mar-16				+
A1041	Internal wall - bay 1: rebars, formworks & casting	6	03-Feb-16	15-Feb-16				
A1042	Internal wall - bay 2: rebars, formworks & casting	6	17-Feb-16	23-Feb-16				
A1043	Internal wall - bay 3: rebars, formworks & casting	6	25-Feb-16	02-Mar-16				